CURRENT PRICES OF ENGINEERING MATERIALS

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PRICE CHANGES AND THE BUSINESS OUTLOOK.

The volume of business being transacted by contractors and manufacturers is the cause of much complaint. In the manufacturing line, especially, the pessimism must be attributed to over-confidence during the boom of 1906. Then the producing capacities of almost all plants in the country were taxed to their utmost and manufacturers, believing there could be no limit to the demand for their product, in the extension of credit or to the supply of labor, provided additional capacity; in numerous instances doubling the existing plants. This is the cause of the complaint of poor business to-day. Manufacturing facilities increased faster than the consumptive demands, and with plants now running to 75% of their capacity, the output is 10% in excess of five years ago. With many competitors struggling for business, the resultant profits are particularly narrow.

The cement industry is a striking example of this. The production has more than doubled in five years, but the price is now lower than ever before.

The small margin of profits accruing to manufacturers is not a theory, but a condition. In each case it will have to be worked out according to the particular lines. Any scaling down of wages will be extremely difficult under the present era of high-priced food stuffs, and with the present temper of labor organizations.

The long expected suit to dissolve the U. S. Steel Corporation has been filed. Previous to this, the corporation had sought to so arrange its affairs as to avoid any possible infringement of the Sherman law. The business world has a new set of problems confronting it, which will require patient work in their solution.

New contracting work has been falling off to a marked degree within the last fortnight. This is noticeable in all sections of the country. In the building trade, particularly, there has been a sharp contraction of business. Numerous car orders have been received by car manufacturers during the last month, and this may mean that the long expected wave of buying by the railroads has commenced. It is significant to note that the gross earnings of the railways are at a high-water mark.

The huge transfer of American credits abroad is laying a strong foundation on which to build a future business structure. The bankers of New York have, during the last two months, transferred an enormous amount of credits to Germany and France, helping the financial communities of Berlin and Paris out of an unpleasant situation. This will be readily returned to the United States when merchants and manufacturers need it for their legitimate enterprises. In the United States Treasury there is now a larger supply of gold than was ever before collected under any government.

Prices continue to sag, but lower quotations are stimulating business. This is especially true in the iron and steel industry, where further cuts have been announced in structural shapes, tin plates, wire and some forms of reinforcing material.

LABOR.

The good demand for pick and shovel laborers now noted is only incident to the closing up of work for the Winter season, but for these laborers contractors are willing to pay $1.65, and the laborers who will stay until the completion of the job are furnished transportation. These are much better terms than have been offered at any previous time this year. Machinists and skilled workmen of all kinds are in excess of the demand. Certain departments of the building trades in New York have been kept very busy during the year owing to the moving of encumbrances along city streets such as changing door-ways, remodeling the fronts and work of that character, which, although small in the individual jobs, has made a large aggregate of work. The strike of machinists on the Harriman lines and Illinois Central has not seriously crippled the operating companies, and evidence points to a hard struggle by the workmen. A particularly bitter fight among the hatters and their employers in Northern New Jersey, which has been drawn out for nearly two years, has at last been settled, but both employers and employees refuse to discuss the terms. The continued unrest because of the high price of the necessities of life is not only apparent in this country, but all over the civilized world the same complaint is heard. The reason is undoubtedly in the expansion of manufacturing enterprise faster than the agricultural community could supply the necessary food stuffs, but the condition remains unchanged. Low prices in cotton have been responsible for the opening of many New England mills, resulting in much better employment in that section.

CEMENT, LIME AND BRICK.

Portland Cement.—Lower prices have been named again this month. None of the cement manufacturers in the Lehigh Valley district pretend to get more than 65 cts. per bbl. in bulk at the mill. This corresponds to a quotation of $1.35 New York. Other manufacturers are selling on a basis of $1.25 New York with the usual allowance of 40 cts. for bags returned, which means a price at the mill of 57 to 60 cts., according to the lighterage charges. While better equipped mills can turn out cement at 65 cts. with a large production, the smaller mills are not so favorably situated and it is a question whether the production is now large enough to make such operations profitable. The volume of business is 80% of normal. There is a vast amount of work contractors are rushing to close before the cold weather sets in which accounts for the large demand.

In the West there is prospect that the Gary plant of the U. S. Steel Corporation will soon be started. This company, which ten years ago had a production of 500,000 bbls. yearly, will have an output in 1910 of probably 10,000,000 bbls. The increase in output by this manufacturer is more rapid even than the increase in the production of Portland cement by all manufacturers in the United States.

Cement prices in the West are more remunerative, but even there some of the mills are feeling the effects of over production.

Natural Cement.—Business continues dull. In New York 80 cts. per bbl. is named and in Boston $1.05.

Plaster Blocks.—For large lots, prices are as follows:

	Weight, per sq. ft. lbs.	Price, per sq. ft. cts.
2-in.	7	6
3-in.	8½	6½
4-in.	11	7¼

These blocks are made 32-in. long by 13½-in. wide, containing 3 sq. ft. of surface. The 2-in. blocks are solid, but the others are hollow.

Plaster boards, ⅜-in. thick, are 16 cts. per sq. yd.

Lime.—The following prices are for lots of 500 bbls. delivered in New York City: State common, per bbl., 75 cts.; Rockland-Rockport, common, 92 cts.; Rockland-Rockport, special, 300 lbs., $1.37; finished, 300 lbs., $1.47; finishing, 200 lbs., $1.02, and 350 lbs., $1.62; New Milford, $1.30.

Brick.—A long fight by the makers of brick has resulted in the changing of the specifications for the city fire houses so that brick could be used in the construction against the exclusive use of reinforced concrete. This fight was waged with much vigor, and it is thought that the moral effect will stimulate much new business next year. The price of brick is steady at $6.50 to $6.75 for Hudson River common.

White enameled brick are held at the unchanged price of $60 per thousand for the American size (8¾ × 2¼-in. enameled surface by 4¼-in. bed), and $70 to $75 for the English size (9 × 3-in. enameled surface by 4½-in. bed). These prices are f. o. b. Perth Amboy.

STONE.

Blue Stone.—The scarcity of curbing continues and now 3-in. flagging is in much better demand so much so that orders are not being filled with the customary promptness.

For delivery, either along side of dock or f. o. b. cars, New York, prices are as follows: Flagging, 6 cts. per sq. ft. per in. of thickness; flagging, 2½ to 3-in. thick, that will pas New York City specifications, 18 to 19 cts. per sq. ft. Sewer bottoms, 5 ft. sq. and 3-in. thick, are sold at 25 cts. per sq. ft. Curbing, 5 × 16-in., is 45 cts. and 5 × 25-in., by 5-in. thick, is 60 cts., and 6-in. thick is 65 to 70 cts. per lin. ft., 5 × 20-in. by 5-in. thick is 55 cts.

Promiscuous shapes of building and foundation stone sell at 70 to 75 cts. per cu. ft.

Granite.—Prices continue unchanged. Run of quarry can be had at 40 to 45 cts. per cu. ft. Pink Milford granite is without change at $1 per cu. ft. for promiscuous shapes.

Limestone.—Prices are without change at 85 cts. per cu. ft. delivered alongside of dock, New York. Dressed stone is quoted at $1.25 to $1.50 per cu. ft.

Sandstone in the rough is 80 cts. to $1 per cu. ft.

Interior Stone.—Slate flooring, 1-in. thick, can be had at 20 cts. per sq. ft. for the common or ribbon variety. Clear black sells at 35 to 40 cts., and the same price is asked for Vermont. A combination of slate and marble flooring is 30 cts. per sq. ft.

Marble floor, finished ready to lay, of Vermont marble, is 50 to 70 cts. per sq. ft.; Italian marble, 70 to 90 cts. Tennessee marble can be had at 65 cts. Ordinary stair work, such as slate steps, are quoted at 24 cts. per sq. ft.

CRUSHED STONE SAND & GRAVEL.

Crushed Stone.—The activity in this line is chiefly because contractors are cleaning up the work of the year. Sellers of stone are canvassing the situation regarding next year and they express the belief that the building industry will be dull. The stone sellers may secure enough business from the paving of the streets of New York to compensate for this loss. It is evident that a great deal of work will have to be on the city streets and this will call for a large quantity of stone. Quotations are as follows:

For 1½-in. stone, 85 to 95 cts. a cu. yd. is quoted; ¾-in. stone, 90 cts. to $1.00, and screenings are also sold at the same price. These prices are for full cargo lots of 500 cu. yds. delivered alongside of dock, New York City.

In Boston the demand is a little better than last month and the following prices per net ton are quoted, f. o. b. cars at point of shipment: 2¼-in., 65 cts.; 1½-in., 75 cents; ¾-in., 90 cts.

Sand.—There is a good demand considering the season, but contractors are not willing to buy ahead believing they can purchase as cheap when the time comes to use the material.

In full cargo lots, quotations are unchanged at 25 cts. per cu. yd. delivered alongside of dock. These are for lots of 500 cu. yds. For sand delivered in smaller quantities or in shallow water, an extra charge is made, and the quotation rules from 35 to 40 cts. per cu. yd.

Delivered in Newark, N. J., and along the Passaic River, the price is 35 to 40 cts. per cu. yd.

Gravel.—The demand continues fair, but it is not as large as last year at this time. The prices, although they would be fairly remunerative if the normal volume of business were being transacted, are far from satisfactory with the present demand, running about 80% of capacity.

Quotations continue without change at 75 to 85 cts. per cu. yd. delivered alongside of dock New York. These quotations are for full cargo lots of 500 cu. yds.

White quartz roofing gravel is $1.25 to $1.35.

THE STEEL SUIT.

The long anticipated suit to dissolve the U. S. Steel Corporation for infringement of the Sherman Anti-Trust law was filed on Oct. 26 at Trenton, N. J., by the Federal Government. The suit has aroused the keenest interest in the business world, not only because of the importance of the iron and steel industry in which the Corporation is the largest factor, but because the operations of the company directly affect a greater number of other lines of business than any other great combination. The Steel Corporation is not only the largest manufacturing company in the world, but it controls hundreds of miles of railways, fleets of steamers and enormous mines. The speculation in its stocks had been enormous, and their prices have had violent fluctuations. The company's securities are perhaps more widely distributed than those of any other company in the world, there being about 120,000 stock-holders of record.

The U. S. Steel Corporation was organized April 1, 1901, acquiring the following companies: The Carnegie Steel Co., Federal Steel Co., American Steel & Wire Co., National Tube Co., National Seel Co., American Tin Plate Co., American Bridge Co., American Steel Hoop Co., American Sheet Steel Co., Shelby Steel Tube Co., and the Lake Superior Consolidated Iron Mines. The Union Steel Co., Troy Steel Products Co. and the Clairton Steel Co. were acquired later. Many of these subsidiary companies were huge consoldations in themselves, notably the American Bridge Co., the American Tin Plate Co., and the Shelby Steel Tube Co., controlling to a large extent the entire industry in their respective fields at the time of organization. The U. S. Steel Corporation in its organization brought under one control all the processes of production from the raw ores in the mines to the final highly finished product. It mines iron ores in its own lands, or lands leased under royalty, transports it on its own railways and steamships, reduces it in its own blast furnaces with the aid of coke and limestone brought from its own properties, converts it into pig iron, and this into steel, which is produced in every finished shape. Much of the steel is further worked up by the Corporation's sub companies into such highly finished forms as sheets, tin plates, tubes and bridges.

The policy of the company toward its competitors, it is generally agreed, has been more fair and liberal than that of many of the other great combinations. The success of this policy has been made possible by the enormous expansion of the iron and steel industry during the decade since the corporation was organized, which has created a profiable market most of the time for the Corporation's entire productive capacity. These high prices and high profits have given a great impetus to the growth of independent concerns, and the Corporation now has strong competitions in nearly all of its products.

While the financial methods of the Corporation's promoters in its early years were severely criticised, its general policy in recent years has won for it the general good will of its competitors and customers. Its earlier policy was to establish certainty of control over the industry by securing the best available ore reserves; but this policy has been apparently reversed. Within a fortnight announcement has been made of the termination of the company's lease of the Great Northern ore lands.

The Corporation's policy of "friendly co-operation" among competing producers, as promulgated by Judge Gary, the head of the Corporation, has been much criticised as tending toward such combinations to limit competition as the Sherman law forbids. Recently a number of sales agents of the Corporation and other steel companies were indicted for agreement to fix prices on a certain line of product, and paid heavy fines rather than stand trial.

That the Corporation and similar great industrial combinations ought to be regulated by the Government to prevent abuse of their great power was frankly admitted by Judge Gary before a Congressional Committee last summer, and he even declared that the prices at which the products were sold might be subject to the approval of Government officials.

IRON AND STEEL.

Pig Iron.—The demand for foundry iron increased during the month and manufacturers all over the country are melting more than they anticipated; orders are being received by blast furnace interests to hurry shipments. Quotations are still sagging and contracts are now being made for iron to be delivered throughout the first half of 1912 at prevailing quotations.

The increased production in September was somewhat a surprise to the trade, being close to 2,000,000 tons and the largest of any month since April. With the exception of that month and the one immediately preceding, it was the largest since October, 1910, and in fact fell short of the production in September, 1910, by slightly under 80,000 tons. Pipe foundries have been large purchasers of iron and it is probable that they have bought at least 50,000 tons of Northern and Southern iron. The increased melting by foundries is also shown by the reduction in the stocks of pig iron at those furnaces which report to the Eastern Pig Iron Association, as well as a reduction in the stock of iron at Virginia furnaces and in Alabama. In spite of the inducements made to purchase for forward delivery, consumers are not anxious to buy, and, in fact, the absence of contracts for future delivery is most unusual. In the steel-making iron, the announcement that the U. S. Steel Corporation will cancel its lease of great Northern ores has had a weakening tendency. At the time this ore was acquired, it was believed and stated by many authorities in the iron trade that the price was high and it was not thought to be a profitable arrangement for the Steel Corporation.

The cancellation of the lease will in any event take just that much iron ore away from the control of the Canadian producer of steel. This was probably the cause of the decline in the price of basic and Bessemer iron early in September and the weakness of these steel-making irons throughout the year.

For lots of 100 gross tons and over f. o. b. points named quotations are as follows: Cincinnati Southern foundry No. 1, $14 to $14.25; Southern foundry No. 2, $13.25 to $13.75; Southern foundry No. 4, $12.50 to $13. In Philadelphia, Eastern Pennsylvania No. 2 X foundry, $15 to $15.25; Eastern Pennsylvania No. 2 plain foundry, $14.75 to $15. In Chicago, Northern foundry No. 2 is $14.35 to $14.60, and Southern No. 2 is $14.35 to $14.85. In Pittsburgh Bessemer iron is 50 cts. a ton lower at $15.40 and basic is practically unchanged at $13.40. These quotations include the 90-ct. freight rate from the Valley to Pittsburgh. In New York No. 2 X Northern foundry is $15 to $15.25 and Southern foundry No. 2 is $14.50 to $14.75. In Birmingham Southern foundry No. 2 is easier at $9.75 to $10.00.

Steel Rails.—The orders now being sent to the mills for rolling by the billet Department of the Carnegie Steel Co. show an increase over those sent during September. At the same time the Rail Department of the Rolling Mill at Sparrows Point, Md. is closed down awaiting orders. Specifications for both rail and track supplies show a seasonable falling off, but some prospect is held out that large foreign orders may be obtained in the near future. The business that will be taken for the Canadian roads during 1912 will be large. The hope is felt in railroad circles that a reduction will be made in the price of rails. The question of rail prices must soon come up for more general discussion.

Quotations are as follows for lots of 500 tons and over: Standard sections, 50 to 100 lbs. per yard, 1.25 cts. per lb.; 40 to 45 lbs., 1.16 cts.; 30 to 35 lbs., 1.20 cts.; 16, 20 to 25 lbs., 1.21 cts., and 12-lb. rails, 1.25 cts. Relaying rails are unchanged in New York, in $20 to $21 per gross ton. In Chicago, standard sections, subject to inspection, are steady and also unchanged at $24.

Track Supplies.—The demand is less than normal, and the railroads are not making the usual inquiries for their 1912 requirements. Quotations have been sharply reduced, and spikes are now quoted at $1.40 to $1.45 per 100 lbs. Pittsburgh. In Chicago spikes are held at $1.60 to $1.70, and track supplies held at $2 to $2.10. The extras are unchanged and are repeated from last month as follows:

Railroad Spikes.		Cents.
3, 3½, 4, 4½ and 5 × ½	Extra	.10
3½, 4 and 4 × 7/16	Extra	.20
3, 3½, 4 and 4½ × ⅜	Extra	.30
2½ × ⅜	Extra	.40
2½, 3 and 3½ × 5/16	Extra	.60
2 × 5/16	Extra	.80

Boat Spikes.		
⅝ in. square, 8 to 16 in. long	Extra	.15
⅝ in. square, 2 to 16 in. long	Extra	.15
½ in. square, 6 to 16 in. long	Extra	.15
7/16 in. sq., 6 to 12 in. long	Extra	.20
⅜-in. square, 4 to 12 in. long	Extra	.30
5/16 in. sq., 4 to 8 in. long	Extra	.45
¼ in. square, 4 to 8 in. long	Extra	.75
¼ in. sq., 3 to 3½ in. long	Extra	1.00

Structural Steel.—The suit for the dissolution of the U. S. Steel Corporation did not come as a surprise in spite of some of the officials' denials or those high in authority. The suit will require considerable time for argument, and should the Government be favorable in its contention and the U. S. Steel Corporation be dissolved into its constituent parts, there will be ample time to readjust conditions. While there has been much feeling against some of the acts of the U. S. Steel Corporation by the jobbing interests who have lost a large portion of their trade, it must be said that the Steel Corporation has a record unique among large corporations. This is practically due to the policy of maintaining a stable price level ever since the Corporation was organized. Until this year the Corporation has held prices on a fairly remunerative level for itself and for other manufacturers, but perhaps not an unreasonable when compared with general index of all prices. The U. S. Steel Corporation has not attempted to stifle competition. In fact, by its very policy of high prices it has increased the number of operating plants. This is especially true in the steel fabricating shops and fabricated work is now being sold at extremely low prices.

No large orders for railroad work have recently appeared, but it is probable that favorable terms would be made should the larger railways come into the market. The steel for the new building to occupy the site of the Madison Square Garden is now being figured on, and 12,000 tons for the Philadelphia Auditorium in Fairmount Park will probably be placed this month. It is significant to note that some larger orders for steel have been held up owing to the fact that prices could not be obtained as desired. Quotations are slightly easier, and 1.20 cts. is the base price for I-beams and channels of the small size. Other quotations are as follows:

I-beams and channels, 3 to 15-in., 1.20 cts.; over 14-in., 1.30 cts.; H-beams over 18-in., 1.40 cts.; angles, 3 to 6-in. inclusive, 1.20 cts.; angles over 6-in., 1.30 cts.; tees, 3-in. and over, 1.20 cts.; deck beams and bulb angles, 1.30 cts.; hand rail tees, checkered and corrugated plates, 2.30.

Mill shipments in the Chicago territory are quoted at 1.43 cts. base and 1.65 cts. base from store.

Cast-Iron Pipe.—Cast iron pipe manufacturers have been active purchasers of iron in the Northern market this month, buying all told about 50,000 tons of Northern and Southern Iron.

Bids were opened Oct. 31 for 7,000 tons of 48-in. pipe for Brooklyn delivery.

Quotations are as follows:

Birmingham, Ala., 4 to 6-in., $23; 8 to 12-in., $22; over 12-in., $21.

Chicago, 4-in. is $26.50; 6 to 12-in., $24.50; 16-in., $24.

In San Francisco, 4-in., $35; 6 to 12-in., $34.

In New York, 6-in. is quoted at $21 to $22.

Gas pipe is held $1.00 a ton higher in all markets. These prices are per net ton of 2,000 lbs.

Old Materials.—Prices for scrap have been getting lower day by day, and the quotations now made are far below anything in recent years. The rolling mills, however, have been taking shipments slightly better and their receiving yards are not as full of scrap as a month ago.

Prices in New York, per gross ton, are as follows:

Heavy - melting steel scrap	$9.25 to $ 9.50
No. 1 yard wrought, long	10.25 to 10.75
No. 1 yard wrought, short	9.25 to 9.75
No. 1 railroad wrought	11.00 to 11.50
Pipes and flues	8.50 to 9.00
Cast borings	5.75 to 6.25
Machinery cast, broken up	9.75 to 10.25
Stove plate	7.75 to 8.25
Malleable castings	9.75 to 10.25

In Chicago, quotations are again lower as follows:

	Per gross ton.
Re-rolling rails	$12.00 to $12.50
Heavy - melting steel scrap	9.50 to 10.00
	Per net ton.
Miscellaneous railroad wrought No. 1	$10.00 to $10.50
Miscellaneous railroad wrought No. 2	9.00 to 9.50
Machine shop turnings	5.75 to 9.50
No. 1 cast scrap	10.00 to 10.50
Pipes and flues	7.00 to 7.50
Railroad malleable	9.50 to 10.00
Agricultural malleable	8.50 to 9.00

Quotations are as follows f. o. b. Pittsburgh:

	Per gross ton.
Re-rolling rails	$12.00
No. 1 foundry cast	$12.50 to 12.75
No. 2 foundry cast	11.75 to 12.00
Old grate bars	9.00 to 9.25
Car wheels	12.00 to 12.25

Plates.—The ship building industry has improved to a marked degree. Much work is now being figured on in connection with the opening of the Panama Canal, and a recently organized steamship company will operate a direct line of boats between the Atlantic and Pacific Coasts of this country. Not all of this work has been let, but prospects are sufficiently promising so that manufacturers of plates are very well satisfied with the outlook. Car orders have been more numerous. The Long Island Ry. has ordered 40 all steel passenger cars. The New York Central has placed an order for 2,000 steel underframe box cars, and the Union Tank Line will build 500 tank cars. The Baltimore & Ohio is asking bids on 1,500 steel underframe cars, and a 4,500-car inquiry will follow. About 9,400 tons of plates will be required for the next section of the Los Angeles, Cal., aqueduct, for which bids closed September 17.

Prices are again lower, the best price now being 1.15 cts. for wide plates. Plates ¼-in. thick, 6¼ to 100 ins. wide, 1.15 to 1.20 cts.; ¼ to 3/16 ins. thick, 1.25 to 1.30 cts.; 3/16 ins. and thinner, including No. 8 gage, 1.30 to 1.40 cts.; Nos. 8, 9 and 10 gage, 1.45 to 1.60 cts. All these prices are per lb. f. o. b. mill. In Chicago, store prices are 1.60 to 1.65 cts.

Rivets.—Continued shading of prices has brought the quotation for structural rivets down to 1.50 cts. and boiler rivets to 1.60 cts. f. o. b. Pittsburgh. These prices represent a decline of $2 per ton as compared with a month ago. Buyers are not contracting for future delivery as they are content to wait and see if the market will show a further decline.

Structural rivets, ¾-in. and larger, take base price; cone heated boiler rivets, ¾-in. and larger, take base price of boiler rivets; ⅝ and 11/16-in. take an advance of 15 cts., while ½ and 9/16-in. take an advance of 50 cts. Lengths shorter than 1-in. take an advance of 50 cts.

Sheets.—A further decline is noted in sheets, amounting to from $1 to $2 per ton. The base price for No. 28 one pass, cold rolled, steel sheets is 1.85 to 1.90 cts. and for No. 28 galvanized, 2.85 to 2.90 cts. There is a fair volume of business, but for those sheet makers who have to buy sheet bars in open market there is a very small margin of profit. Sheet bars are now ruling at $21.

Prices f. o. b. Pittsburgh are as follows:

	Cts. per lb. Black.	Galvanized.
Nos. 10 and 11	1.50	1.85
Nos. 12, 13 and 14	1.55	1.95
Nos. 15, 16 and 17	1.70	2.10
Nos. 18, 19, 20 and 21	1.70	2.25
No. 22	1.70	2.25
Nos. 23 and 24	1.75	2.35
Nos. 25 and 26	1.80	2.55
No. 27	1.85	2.70
No. 28	1.85	2.85
No. 29	1.90	2.95
No. 30	1.90	3.15

In Chicago store prices are as follows:

	Cts. per lb. Black.	Galvanized.
No. 10	2.05	
No. 12	2.05	2.60
No. 14	2.10	
No. 16	2.20	2.70
Nos. 18 to 22	2.35	2.85
No. 24	2.40	2.95
No. 26	2.50	3.15
No. 27	2.60	3.20
No. 28	2.80	3.45
No. 30	3.00	3.90

Roofing Corrugated.—Quotations for corrugated roofing are $2 per ton lower. This has not stimulated any large amount of buying. The following quotations are per 100 sq. ft. of roofing surface, in carload lots f. o. b. Pittsburgh: No. 28, painted, $1.30; galvanized, $2.45; No. 27 painted, $1.45; galvanized, $2.50; No. 26, painted, $1.55; galvanized, $2.60; No. 24, painted, $2.05; galvanized, $3.10; No. 22, painted, $2.55; galvanized, $3.65.

Corrugated sheets from store New York are also lower and are held as follows per 100 sq. ft. of roofing surface: No. 28, painted, $2.40; galvanized, $3.55; No. 26, painted, $2.75; galvanized, $3.80; No. 24, painted, $3.65; galvanized, $4.50.

Swedish Steel.—There is a fair demand from contractors and mines particularly in the West. Drill steel, either round, hexagon or octagon, is 6 cts. per lb. for all sizes, ⅝ to 2 ins. For sizes 2⅛ to 3 ins., 7 cts. is quoted, and 3⅛ to 4 ins. is 7½ cts.

Hollow drill rod is held at 12½ to 15 cts. for the imported.

Anvils of Swedish steel are held at 9 to 9½ cts. per lb. They weigh from 80 to 600 lbs.

Merchant Pipe.—The new discounts on merchant pipe show a considerable decline compared with those for last month, and this has brought more increase into the market. The Texas Company who ordered about 150 miles of 6-in. pipe is now in the market for 250 miles of 6 to 8-in. The Standard Oil Company of Mexico is in the market for 47 miles of 8-in. New discounts on pipe are fairly well maintained and the mills are operating at 60 to 70% of capacity. Discounts are as follows:

	Black.	Galv.
¾ to 1½ in. Butt Welded	80	72
2 in. Lap Welded	77	70
2½ to 4 in. Lap Welded	78	70
4½ to 6 in. Lap Welded	78	70
7 to 12 in. Lap Welded	76	66

At these discounts the net prices of pipe per ft. are as follows:

	Steel pipe in cts. per ft. f. o. b. mill. Black.	Galvanized.
¾-inch	2.30	3.22
1 -inch	3.30	4.62
1¼-inch	4.50	6.30
1½-inch	5.40	7.56
2 -inch	8.28	10.80
2½-inch	12.075	16.10
3 -inch	15.855	21.14
4 -inch	22.68	30.24
5 -inch	31.90	43.50
6 -inch	41.36	56.40
7 -inch	56.40	79.90
8 -inch	60.00	85.00
9 -inch	81.60	115.60
10 -inch	84.00	119.00
11 -inch	108.00	153.00
12 -inch	117.60	166.60

Wire Rope.—The demand is small but discounts remain unchanged, principally because no orders sufficiently large sized have appeared to test the market. The discount to the larger trade is 42½ and 5% from list for galvanized and 50 and 5% from list for bright.

The net prices of bright wire rope are as follows:

Diameter, ins.	Price per foot. Cast steel.	Crucible steel.	Plow steel.
2½	$1.05	$1.24	$1.46
2¼	.85	1.05	1.22
2	.57	.65	.76
1¾	.55	.54	.64
1½	.32	.39	.45
1¼	.23	.28	.32
1	.15	.18	.21
¾	.10	.11	.13
⅝	.07	.09	.10
½	.06	.07	.07

Steel Castings.—There is [illegible] large amount of business and p[illegible] continue unchanged. Open h[illegible] steel castings are 3½ to 5 cts. p[illegible] when the castings weigh from [illegible] to 500 lbs. Crucible castings, weigh[illegible] within the same limits, are 7½ to 9 [illegible] per lb.

Freight Rates.—The freig[illegible]tes on finished steel products, from [illegible] Pittsburgh district, including pl[illegible] structural shapes, merchant ste[illegible]d iron bars, pipe, fittings, plain [illegible] galvanized wire, nails, rivets, spik[illegible] bolts (in kegs), black sheets (ex[illegible] plan-ished), chain, etc., are as [illegible]ws, in cts. per lb.; Albany, 16; [illegible], 11; Boston, 18; Baltimore, 14½; [illegible]ndaigua, 13½; Cleveland, 10; Co[illegible]s, 12; Cincinnati, 15; Chicago, [illegible] Denver, Colo., 85½; Harrisburg, 14½; [illegible]sville, 18; New York, 16; Norfolk, [illegible] Philadelphia, 15; Rochester, 11½; [illegible]mond, 20; Scranton, 15; St. Louis, [illegible] Washington, 14½.

Castings Gray Iron.—Buil[illegible] castings can be had at 1.62½ to [illegible] cts. per lb., depending on the size of [illegible] order and shape of the casting. S[illegible] work is 2 to 2.50 cts. per lb. Rough castings, such as foundation pieces, s[illegible] work, and similar heavy pieces, a[illegible] 1.50 to 1.75 cts. per lb.

Merchant Shapes.—Quotations from store New York are as follow[s]:

	Cts. per lb.
Refined iron:	
1 to 1⅞-in. round and square	1.70
1½ to 4-in. × ⅜ to 1-in.	1.70
1½ to 4-in. × ¼ to 5-in.	1.80
Rods:	
⅝ and 11/16 round and square	1.80
Angles:	
3-in. × ¼-in. and larger	1.90
3-in. × 3/16-in. and ⅛-in.	2.30
1½ to 2½-in. × ⅛-in.	2.05
1½ to 2¾-in. × 3/16-in. and thicker	1.95
1 to 1¼ × 3/16-in.	2.05
1 to 1¼ × ⅛-in.	2.10
⅞ × ⅛-in.	2.20
¾ × ⅛-in.	2.25
⅝ × ⅛-in.	3.45
½ × 3/32-in.	3.90
Tees:	
1-in.	2.35
1¼-in.	2.20
1½ to 2½ × ¼	2.00
1½ to 2½ × 3/16-in.	2.10
3-in. and larger	3.95
Beams	1.90
Channels, 3-in. and larger	1.90
Bands, 1½ to 6 × 3/16 to No. 8	2.10
"Burden's Best" Iron, base price	3.15
Burden's "H. B. & S." iron, base price	2.95
Norway bars	3.60
Bessemer machinery	1.90
Cast steel base	7.00
Special cast steel, base	14.00

Piling Sheet Steel.—Prices are without change at 1.60 cts. per lb., f. o. b. Pittsburgh.

Tin Plate.—The price of tin plate has been cut 20 cts. per box. This is the first decline in tin plates for nearly two years. The present quotation of $3.64 per base box, New York, is the same as during the cut in the price in 1909, and with that exception is the lowest since 1905. There has been heavily buying of tin plate, particularly by the meat packers, and the tin plate mills are now operating to about 65% of capacity. It must be remembered that the tin plate producing capacity of the country has increased largely during the past five years.

Terne plates or tin plates used for roofing purposes are sold by the box of 112 sheets. Store prices in New York are as follows: for 20 × 28-in. I C. plates with an 8-lb. coating, $8.30 per box; plates of same size with a 15-lb. coating, $10.20; 20-lb. coating, $12.80, and 40-lb. coating, $16.30.

Chain.—Prices are unchanged and the following are named for cask lots of 500 lbs. to consumers. The quotations are per 100 lbs. f. o. b. Pittsburgh:

Sizes in ins.	Proof.	BB.	BBB.
3/16	$8.10	$9.35	$9.85
¼	5.55	6.80	7.30
5/16	4.55	5.80	6.30
⅜	4.00	5.25	5.75
7/16	3.70	4.95	5.45
½ and 9/16	3.50	4.75	5.25
⅝	3.40	4.65	5.15
¾	3.30	4.55	5.05
⅞	3.20	4.45	4.95
1	3.10	4.35	4.85
1⅛ and 1½	3.20	4.45	4.95

Prices for hand-made chains are unchanged:

*Size in inches.	BBB crane chain.	BBB crane, hoisting or shovel chain. dredge steam hoisting	Special "Warwick" crane hoisting steam shovel hoisting and dredge hoisting chain.	Special "Trident" crane, steam shovel hoisting & dredge hoisting chain.
⅝	$7.95	$8.20	$9.15	$9.15
¾	7.15	7.45	8.45	8.45
⅞	7.67	6.90	7.90	....
1	6.15	6.40	7.45	....
1⅛	5.75	5.95	6.90	....
1¼	5.65	5.90	6.85	....
1⅜ to 1⅞	5.55	5.75	6.80	....

*Thickness

Coke.—There is a very fair demand for coke, and because of a labor shortage in the coke making regions consumers are unwilling to allow their stock piles of coke to be reduced. For prompt shipment furnace coke can be had at $1.55 per net ton at oven. For

contracts extending over the first half of 1912, $1.65 is accepted. The price of 72-hr., foundry coke, is $1.85 to $2 for prompt shipments; for delivery throughout the first half of 1912 quotation is unchanged at $2.10 to $2.40 with very little business ruling.

Nails.—A decline in the price of wire and lower quotations for nails has been noted. Barb wire in Pittsburgh is now selling at $1.70 per keg base in carload lots to retail merchants. In less than carload lots, and advance of 10 cts. per keg is demanded. In New York wire nails are sold from store at $1.95 per keg.

Lag Screws.—Cone point lag screws are sold at a discount of 80% from list. The net prices are as follows:

Length.	½-in.	¾-in.	1-in.
	Diameter in inches—Net price per 100.		
3½-in.	$1.04	$2.12	$4.40
4 -in.	1.11	2.26	4.66
4½-in.	1.10	2.40	4.92
5 -in.	1.25	2.47	5.18
6 -in.	1.40	2.82	5.70
7 -in.	1.59	3.10	6.22
8 -in.	1.68	3.38	6.74
9 -in.	1.83	3.66	7.26
10 -in.	1.87	3.94	7.78
11 -in.	2.11	4.22	8.30
12 -in.	2.26	4.59	8.82

Spiral Riveted Pipe.—Prices continue unchanged from the last report. The prices given below are f. o. b. factory, freight equalized with New York City, being figured at a discount of 50, 10 and 10% from list.

They are for orders amounting to about $250. For large orders of several carloads, prices are from 12½ to 20% cheaper.

Diameter in ins.	of steel, Birmingham wire gage.	Net price per 100 ft. With bolted joints complete. Plain.	As-phalted.	Galvan-ized.
3	20	$21.80	$14.21	$20.70
4	18	19.76	21.48	30.74
5	18	23.40	23.70	37.14
6	16	33.05	35.76	49.73
7	16	37.58	40.76	56.82
8	16	43.17	46.80	65.00
9	16	50.06	54.10	74.22
10	14	66.42	71.08	96.15
11	14	71.20	76.57	102.24
12	14	83.75	89.15	118.30
13	14	89.67	96.55	127.98
14	14	99.14	105.51	138.85
15	14	108.05	114.89	151.92
16	14	117.53	124.82	166.58
18	12	167.43	175.95	226.44
20	12	183.79	193.30	248.39
22	12	200.48	210.64	269.21
24	12	219.92	231.07	293.99
26	10	280.20	292.41	370.78
28	10	301.32	314.89	395.37
30	10	324.81	399.15	430.64

*Made in both lighter and heavier gages at corresponding differences in price.

Wire.—A cut in the price of wire $1 per ton was announced this week, bringing the regular quotation down to the same level as the cut that has been ruling for about two months. Quotations are as follows: For carload lots of wire, annealed, $1.60; galvanized, $1.90. Less than carload lots are sold at an advance of 10 cts. per 100 lbs. Galvanized barb wire is $2.10 and painted, $1.80. All of these quotations are per 100 lbs.

Switch Points.—The following prices are named f. o. b. mill, for switch points in lots of ten or more pair; for 60-lb. rail, 10-ft. points, $16.25; 15-ft. points, $17.50 for 70-lb. rail; 10-ft. points, $18; 15-ft. points, $25; for 80-lb. rail, 10-ft. points, $25.50; 15-ft. points, $27.75; for 90-lb. rail, 15-ft. points, $30.50; for 100-lb. rail, $33.50. All of the above are furnished with three rods, except the 10-ft. points for 60 or 70-lb. rail, which have only two.

Bolts.—Prices are unchanged from last month. The discount on common carriage bolts is 75 and 10% on bolts ⅜ x 6-in. and smaller. On larger and longer bolts the discount is 70 and 10%. At these discounts the net prices are as follows:

Length ins.	⅜	½	¾
	Diameter inches—Net price per 100.		
4	$0.62	$0.99	$2.34
5	0.68	1.13	2.57
6	0.75	1.23	2.84
7	0.99	1.35	3.05
8	1.08	1.46	3.32
9	1.16	1.58	3.55
10	1.24	1.70	3.80
12	1.42	1.94	4.30
14	1.59	2.18	4.80
16	1.77	2.42	5.28
18	1.94	2.65	5.78
20	2.10	2.88	6.30

Frogs.—For mill shipments of ten or more, prices are as follows: Bolted frogs, No. 7, for 60-lb. rail, $15; for 70-lb. rail, $16.50; for 80-lb. rail, $18; No. 8 frogs for 90-lb. rail, $21; for 100-lb. rail, $23. Plate frogs, No. 7, riveted to ⅜-in. plate for 60-lb. rail, $18; for 70-lb. rail, $20; for 80-lb. rail, $21.50. No. 8 frogs bolted to a ¾-in. plate for 90-lb. rail are $25.50; for 100-lb. rail, $27.50.

REINFORCING MATERIAL.

Triangular Mesh.—The volume of business now being taken by the manufacturers of this material is breaking all records. In September a new high record was established and in October the mark was placed still higher. The decline in the price of cement is in a measure responsible for the increased use of this material, but most of the large buildings now being erected call for large quantities of this material. A recent order called for 150 tons for a large hospital in Boston and 100 tons will go into the Du Pont Building in Wilmington.

The following quotations are per 100 sq. ft. in lots of the size named, f. o. b. mill in Pittsburgh district:

Style No.	Cross sec. area per ft. width.	Price per 100 sq. ft. Carload lots.	Less than Carloads and over 10,000 sq. ft.
*4	.102	$0.97	$1.18
5	.077	.77	.94
6	.058	.61	.74
*7	.041	.47	.58
*23	.170	1.62	1.98
24	.142	1.40	1.71
25	.124	1.24	1.51
*26	.110	1.13	1.38
*27	.085	.92	1.13
28	.066	.77	.94
29	.049	.63	.77
31	.261	2.39	2.92
32	.225	2.07	2.53
33	.196	1.85	2.26
34	.146	1.42	1.73
35	.109	1.13	1.38
36	.075	.83	1.02
*38	.380	3.40	4.15
39	.324	2.93	3.58
40	.283	2.57	3.14
41	.208	1.96	2.39
*42	.151	1.49	1.82
43	.101	1.06	1.29

This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 ins. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special lengths is charged extra.

Bars, Concrete Reinforcing.—Prices are not at all steady, the base price of 1.20 cts. per lb. being adhered to in only a moderate way. Concessions of $1 a ton are frequent, and on a very desirable order the price might be shaded $2 a ton. The volume of business is fair.

The net prices of bars of various sizes f. o. b. mill are as follows:

	Cts. per lb. Plain.	*Deformed.
¾-in. & larger	1.20 to 1.30	1.25 to 1.35
⅝-in.	1.25 to 1.35	1.30 to 1.40
½-in.	1.30 to 1.40	1.35 to 1.45
⅜-in.	1.45 to 1.55	1.50 to 1.60
¼-in.	1.70 to 1.80	1.75 to 1.85

Bar from stock, Pittsburgh, are usually cut to the required length without extra charge. Prices per lb. are as follows:

	Cts. per lb. Plain.	Deformed.
¾-in. & larger	1.40 to 1.60	1.50 to 1.60
⅝-in.	1.45 to 1.55	1.55 to 1.65
½-in.	1.50 to 1.60	1.60 to 1.70
⅜-in.	1.65 to 1.75	1.75 to 1.85
¼-in.	1.90 to 2.00	2.00 to 2.10

*The price of deformed bars varied according to the shape, and some are held much higher than these prices.

Expanded Metal. — Quotations are without change as follows:

Mesh.	Gage-stubbs.	Designation.	Weight per sq. ft.	Sectional area per ft. width.	Price per sq. ft. in cts. Carload.	10,000 sq. ft. to carload.
½-in.	18	Standard	.74	.209	3.71	4.04
¾-in.	13	Standard	.80	.225	3.69	4.03
1½-in.	12	Standard	.70	.207	3.43	3.76
2 -in.	12	Standard	.56	.166	3.20	3.48
3 -in.	13	Standard	.28	.087	1.32	1.44
3 -in.	10	Light	.50	.148	1.55	1.69
3 -in.	10	Standard	.60	.178	1.80	1.97
3 -in.	10	Heavy	.90	.267	2.46	2.69
3 -in.	10	Extra heavy	1.20	.356	3.18	3.47
3 -in.	6	Standard	1.38	.400	3.85	4.20
3 -in.	6	Heavy	2.07	.600	5.64	6.16
4 -in.	16	Old Style	.42	.093	1.78	1.94
6 -in.	4	Standard	.84	.245	2.42	2.64
6 -in.	4	Heavy	1.26	.368	3.38	3.68

LUMBER.

The demand for all kinds of lumber has fallen off somewhat during the month, yet there has been no sharp drop in prices nor has there been any particular effort made to move goods. The lumber trade is in a healthy state, with stocks cleared out at the yards and the demands from builders and contractors are sufficient to absorb the supply now coming to the market. With any increase in the demand, it is probable that numerous mills would start up and create some kind of a surplus.

Long Leaf Yellow Pine.—Prices continue unchanged, and for delivery from yard in New York and vicinity, for material classed as "Merchantable" under the 1905 rules of the Association, prices are as follows:

Prices per Thousand Feet in Yard, New York.

	Length. 20 ft. base.	21 to 25 ft.	26 to 30 ft.	31 to 35 ft.
2 in. wide and under by 8 in. thick and under	$31	$32	$33	$34
10 in. wide by 10 in. thick and under	33	34	35	36
12 in. wide by 12 in. thick and under	36	37	38	39
14 in. wide by 14 in. thick and under	43	44	46	46
16 in. wide by 16 in. thick and under	45	46	47	48

For pieces longer than 35 ft. and less than 40 ft., add from $4 to $8 to base price.

Spruce.—In Boston wholesale prices are as follows:

	Per 1,000 ft.
9-in. and under	$23.50 to $24.00
10 to 12-in	23.50 to 24.00
2 x 4-in. random	20.00 to ....
2 x 6-in. random	19.50 to 20.00
2 x 8-in	21.50 to 22.00
2 x 10-in	22.50 to 23.50
2 x 12-in	22.50 to 23.50

Flooring.—The demand continues steady and prices are without change. Quarter-sawed oak flooring, A1, is $95 per M. Selected, quarter-sawed, white oak or red oak flooring is $52 per M., and common oak flooring, red or white, is $30 per M.

Maple flooring, 13/16 x 2 ins., is $44 for clear; $37 for No. 1 and $24 for factory.

Long-leaf yellow pine flooring, 13/16 x 2½ face, is $55 to $60 for A heart rift; $40 for sap rift; $28 to $30 for flat rift and $22 to $23 for No. 1 common flat grain.

Hemlock.—There is a scarcity of material coming to the market and prices are firm at the advanced quotation.

There are no sellers at less than $21 for Pennsylvania and $20.50 for West Virginia.

Price Per Thousand, f. o. b. cars, New York.

Size.	Length. 10 ft.	12 ft.	14 ft.	16 ft.
2 x 4-in.	$23.00	$21.00	$21.00	$23.00
2 x 6-in. to 2 x 10-in.	21.00	21.00	21.00	18.00 to 19.00
3 x 4-in. to 12 x 12-in.	21.50	21.50	22.00	19.00 to 20.00
1 x 8-in.	....	18.00	18.00	18.00
1 x 10-in. & 1 x 12-in.	....	18.50	18.50	18.50

Lath.—The price is steady. In Boston 1⅝-in. sells at $3.75 and 1½-in. at $3.40 to $3.50.

Cross Ties.—Prices are more or less nominal. In New York, the G. S. Baxter Co., 15 William St., quote prices from last month as follows:

	Cents each.
7 x 9-in. by 8 ft. 6-in.	75
6 x 9-in. by 8 ft. .....nominal	72
6 x 8-in. by 8 ft.	67

CLAY PRODUCTS.

Hollow Tile.—The demand continues in fair volume for prompt delivery.

Prices for hollow wall building tile, f. o. b. factory, Perth Amboy, N. J., are without change, as follows:

Size.	Price per block, in cts.
4 x 12 x 12-in.	5.25
6 x 12 x 12-in.	6.6
8 x 12 x 12-in.	10.5
10 x 12 x 12-in.	10.5
12 x 12 x 12-in.	12.1

Fireproofing partition blocks are unchanged as follows:

Size.	Price per block, in cts.
2 x 12 x 12-in.	4.4
3 x 12 x 12-in.	4.4
4 x 12 x 12-in.	5.
6 x 12 x 12-in.	6.6
8 x 12 x 12-in.	8.8

These prices are for what would be considered small orders—approximately carload lots. For quantities which exceed $1,000 worth of material concessions will be made.

Duct Telephone.—Small lots are sold at 4½ to 5 cts. per duct ft., but considerable concessions are made for desirable orders.

Sewer Pipe.—Prices are considerably lower and the reduced quotations have brought no great volume of business. The discounts applying to the Eastern list are as follows: for all sizes from 3 to 24 in., inclusive, 88% discount; for 27 and 30 in., 80% discount; for 33 and 36 in., 75% discount. At these discounts the net prices per foot for carload lots f. o. b. factory are as follows:

3-in.	..	$0.024
4-in.	..	.03
5-in.	..	.036
6-in.	..	.048
8-in.	.066	..
10-in.	.096	..
12-in.	.12	..
15-in.	.162	..
18-in.	.227	..
20-in.	.27	..
21-in.	.325	..
22-in.	.36	..
24-in.	.39	..
27-in.	.90	..
30-in.	1.10	..
33-in.	1.56	..
36-in.	1.75	..

Roofing Tile.—Prices are steady and continue without change. The best grade for promenade roofing tile in flat blocks for high-grade roofs is sold at $20 per M. for run of kiln, and $30 per M. for selected. A cheaper form of tile with a smooth surface can be had at $10 to $12, but it is not suitable for roof gardens. These prices are for 9 x 9-in. blocks, f. o. b. factory. It requires 258 blocks to lay 100 sq. ft. of roof surface and, in consequence, the price per 100 sq. ft. of roof surface would be $4 to $5 for the smooth blocks; $7.82 for run of the kiln, and $10.73 for the selected.

Vitrified tile, unglazed, of the French or Spanish type is sold at approximately $8.50 per 100 sq. ft. of roof surface, f. o. b. factory. Glass tiles are sold at 60 cts. each. It requires 183 of these for 100 sq. ft. of roofing.

Flue Lining.—Prices continue without change. The discount from list, f. o. b. mill, is 85%. Delivered in New York, in small lots, they can be had at 78%. Based on a discount of 85% at the mill, net prices are as follows:

	Weight in lbs.	Price per ft.
4½ x 8½-in.	14	$0.04½
4½ x 13 -in.	20	.068
4½ x 18 -in.	40	.015
6 x 12 -in.	22	.075
7 x 7 -in.	15	.053
8½ x 8½-in.	18	.068
8½ x 13 -in.	28	.098
8½ x 18 -in.	45	.135
12 x 16 -in.	45	.15
13 x 13 -in.	38	.128
13 x 18 -in.	57	.18
14 x 16 -in.	60	.165
16 x 16 -in.	65	.24
16 x 20 -in.	80	.30
18 x 20 -in.	75	.30

MILL SUPPLIES.

Shafting.—The automobile trade is fairly active but shafting is in only light demand. For ordinary mill work the inquiry is extremely limited.

The general asking price for carload lots is 60% discount from list but enough sales have been made at 60% and 10% to establish that quotation. For less than carload lots 55% is the general price.

The following net prices per foot are based on the discount of 55%; ¾-in., 3.75 cts.; 1-in., 6.65 cts.; 1¼-in., 10.40 cts.; 1½-in., 13.50 cts.; 1¾-in., 18.30 cts.; 2-in., 23.70 cts.; 2¼-in., 31.45 cts.; 2½-in., 37.53 cts.; 2¾-in., 45.40 cts.; 3-in., 54.13 cts.; 3½-in., 82.60 cts.; 4-in., $1.15; 4½-in., $1.50; 5-in., $2.10; 5½-in., $2.74; 6-in., $3.48.

Belting.—The sales effected in the last month have not been of large volume.

The following quotations prevail for rubber belting: Best grades, 40 and 10% to 50%; standard, 50 and 10 to 60%; competitive grades, 60, 10 and 10% to 70%. Discounts on leather belting are unchanged as follows: Extra heavy, 60%; heavy, 60 and 5%; medium, 70%; light, 70 and 5%; standard, 70 and 10%.

The following net prices per ft. of rubber belting are computed at the outside discounts given above. The price of leather belting is, as stated, unchanged from last month. The net prices will be found on p. 167 issue of Oct. 5.

RUBBER BELTING, NET PRICE PER FT.

Width inches.	2-ply.	4-ply.	6-ply.	8-ply.
3	$0.16	$0.22	$0.33	....
4	.21	.30	.45	....
5	.26	.44	.55	....
6	.30	.51	.65	$0.87
7	.36	.55	.75	1.01
8	.40	.57	.87	1.15
9	.46	.64	.96	1.30
10	.51	.72	1.01	1.44
12	.60	.86	1.30	1.70
14	.72	1.01	1.53	2.01
16	.83	1.17	1.76	2.35
18	.93	1.34	2.00	2.65
20	1.04	1.49	2.25	2.98
22	1.17	1.67	2.50	3.33
24	1.30	1.85	2.76	3.70
26	1.42	2.04	3.06	4.08
28	1.58	2.22	3.33	4.45
30	1.69	2.40	3.60	4.80
34	1.94	2.79	4.16	5.54
38	2.22	3.15	4.70	6.30
42	2.46	3.50	5.30	7.00
46	2.75	3.88	5.80	7.72
50	3.02	4.25	6.40	8.50
56	3.40	4.80	7.20	9.60
60	3.67	5.20	7.80	10.40

Chain Belting.—Prices are without change and the demand is fair.

From 3HP. to 10 HP., 30-in. centers complete, with two sprockets, $7 to $8 per HP.; from 10 HP. to 25 HP., 36-in. centers complete, $5 to $6 per HP.; from 25 HP. to 100 HP., 60-in. centers complete, $4 to $5 per HP.; from 100 HP. to 500 HP., 72-in. centers complete, $3 to $4 per HP.

Packing.—The demand is good. Prices continue unchanged for original packages in small lots.

Asbestos wick and rope, 13 cts.; sheet rubber, 11 to 13 cts.; pure gum rubber, 40 to 45 cts.; red sheet, 40 to 50 cts. Cotton packing can be had at 16 to 25 cts.; jute at 3¼ to 3½ cts., and Russian at 9 to 10 cts.

High-Speed Steel.—The demand is less than last month. Prices are without change at 50 to 75 cts. per lb.

Fire Hose.—Prices of hose are unchanged. The standard grade of underwriters' cotton rubber-lined hose, 2½-in. diameter, warranted, 350 lbs. pressure, is sold in 50-ft. lengths, complete with couplings, at 65 cts. per ft. Common hose, 2½-in. diameter, tested to 200 lbs. pressure, is 35 cts. per ft.

Lubricating Oils.—Quotations continue without change, the following figures being named for 5-bbl. lots:

	Cts. per gal.
*Cylinder, dark	20 to 27
*Cylinder, steam, refined	14 to 22
Neutral Oils, filtered:	
Stainless white, 32 to 34 gravity	28 to 29
Lemons, 33 to 34 gravity	17 to 19
Dark, 32 gravity	15 to 18
Crank Cast oil	15 to 17

*Prices are according to test.

Cotton Waste.—The following prices are named on cotton waste in bales of 100 to 500 lbs.:

No. 1 White Picked Cotton Waste, 9¾ cts. per lb.; No. 3 is 8¾ cts.; No. 1 Colored, 6½ cts.; No. 3 Colored is 5½ cts.

OILS AND PAINTS.

Petroleum Products.—The demand for oil is fairly active, export business continuing large. There is also a very good inquiry for crude oil for domestic uses. The demand for petroleum and gasoline is seasonable. The price of crude oil in bbls. as quoted by the Standard Oil Co. or its subsidiaries is unchanged as follows: Pennsylvania, Second Sand, and Tiona, $1.30; Mercer black, is 87 cts.; Corning, 77 cts.; New Castle, 84 cts.; Illinois, 65 cts.; Illinois heavy, below 30 gravity, 55 cts.; Kansas heavy, 30 cts.

In New York petroleum from tank wagon is unchanged at 6 cts. and auto naphtha and stove gasoline is likewise without change at 12¾ cts. per gal.

Fuel oil is 2.50 cts. per gal. or $1.15 per bbl. of 52 gals. in carload lots f. o. b. New York.

Linseed Oil.—Prices are slightly easier, oil now selling at 90 to 91 cts. in New York. The stocks are small and the arrivals are also light. Receipts of flaxseed at primary points are disappointing, even taking into consideration the small crop reported. Indications point to a continuation of the high price of linseed oil for the next year, as flaxseed is now selling at $2.40 per bus. at Duluth, which is the highest quotation for this season's crop and within 10 cts. of the highest price paid for last year's crop.

Spirits Turpentine.—After trying in vain to support the turpentine market at 50 cts. Savannah, the naval store interests are now endeavoring to keep the price from going below 50 cts. New York. Manufacturers who consume turpentine in large quantities have large stocks on hand and consequently are not buying at these quotations. In New York turpentine is sold at 50 to 51 cts., but for desirable orders this price could be shaded. In Savannah the price is 46¾ to 47 cts.

Paints.—Prices of white lead in oil are unchanged. For lots of 500 lbs. or over, in 250 to 500-lb. kegs, 7½ cts. per lb., in 25 and 50-lb. kegs, 7¾ cts. is quoted. Red lead and litharge in bbls., half bbls. and 100-lb. kegs, is 8 cts. per lb.

Graphite paint is unchanged at $1.40 per gal.

Hydrex preservative paint is 75 cts. per gal. in bbl. lots, New York City.

Colors in oil are quoted at the following prices per lb.: Lamp black, 12 to 14 cts.; Chinese blue, 36 to 46 cts.; Prussian blue, 32 to 36 cts.; Van Dyke brown, 11 to 14 cts.; Chrome green, 12 to 16 cts.; Raw or Burnt Sienna, 12 to 15 cts.; Raw or Burnt Umber, 11 to 14 cts.

LINE CONSTRUCTION.

Aluminum Wire.—The demand is small except for work on the Pacific coast. The price continues unchanged at 31 cts. per lb. base.

Poles.—Cedar poles are quoted as follows by the R. D. Dowie Pole Co., New York Block, Seattle, Wash. The price is f. o. b. loading point.

Length in ft.	Diameter at top. 8-in.	9-in.
30	$2.70	....
35	3.15	$3.50
40	3.60	4.00
45	....	4.50
50	....	5.00
55	....	5.50
60	....	7.20
65	....	9.75
70	....	10.50
75	....	11.25
80	....	12.00

Chestnut poles, f. o. b. Mechanicsville, N. Y., are quoted by T. C. Luther of that place as follows:

Length in feet.	Price each. Diameter at top. 5-in.	6-in.	7-in.
25	$1.50	$2.00	$2.75
30	2.50	2.75	3.50
35	2.75	3.25	4.25
40	3.25	4.00	5.50
45	4.00	5.50	7.50
50	5.50	7.50	9.50

Fir Cross Arms.—Prices are unchanged, as follows:

Size, 3½ × 4-in.	Price per arm in cts. Pacific Coast.	Chicago.	New York.
3 ft., 2-pin	8	13½	15½
4 ft., 2-pin	11	18½	21
5 ft., 4-pin	16	26½	28½
6 ft., 4 and 6-pin	20½	31½	36
8 ft., 6 and 8-pin	28	42	48½
10 ft., 8, 10 and 12-pin	37	55½	67½

Telegraph Wire.—For lots of fair size, the wire measured in Birmingham wire gage, the prices in cts., per lb., are as follows: "Extra Best Best," Nos. 6 to 9, 4¾ cts.; Nos. 10 and 11, 4⅞ cts.; No. 12, 4⅝ cts.; No. 14, 5⅛ cts. "Best Best," Nos. 6 to 9, 3⅛ cts.; Nos. 10 and 11, 3⅜ cts.; No. 12, 3⅝ cts.; No. 14, 4 cts. Actual freight is allowed from Trenton, N. J., where it does not exceed 25 cts. per 100 lbs.

Insulators. — Prices are without change. Glass insulators in lots of more than 1,000 and less than 10,000 are sold at the following prices per 1,000: Double petticoat, 20 oz., $33; Western Union, $30.25; No. 2 cable, $53.90; No. 4 cable, $210; Muncie type, 7-in., $236.50; No. 3 triple petticoat, 4½-in., $90.75.

Copper Wire.—There has been a very fair volume of business and the electric railways have made a great many replacements, but the new work has been limited. Prices are without change at 14 cts. base.

METALS.

Copper.—The depressing influences that developed in the copper situation during September extended well into the first half of October, and reduced prices to the lowest level reached since May. The chief factor of the decline was the European political complications. Fears were entertained that foreign trade conditions would be seriously set back and thereby put a check on sales for export. To a degree the apprehension was realized, but not to the extent anticipated. Buying, for shipment abroad, was resumed as soon as an amicable settlement was reached, and continued at an average rate up to the end of the month. Domestic consumers were also encouraged to buy more freely on account of better trade conditions in this country. About the middle of October, the market displayed considerable strength. The price advance was principally in electrolytic copper, which during the last half of the month rose to 12.60 cts. delivered, on a large volume of business.

Consumers having filled their requirements, prices relaxed at the close of October. Electrolytic was offered at 12.37½ cts. cash New York, and 12.50 cts. delivered and lake at 12.50 cts.

The statistics of the Copper Producers' Association for September are as follows: Production was 115,588,950 lbs., a decrease of 9,904,777 lbs., domestic deliveries were 57,311,584 lbs., a decline of 2,600,000 lbs. and shipments for export were 50,824,011 lbs., a decline of 19,031,649 lbs., compared with August statistics. Since Oct. 1, tabulations at the New York Metal Exchange show that 21,360 tons of copper have been exported.

Pig Tin.—The London pig tin market made a rapid recovery from the September slump. Late in October prices again showed signs of weakness, but there was still a wide margin of recovery left. Up to Oct. 27, the extreme advance of spot tin from the low level of September, was about 5 cts. The domestic market had a corresponding rise. Spot tin advanced to 42.75 cts. from 37.50 cts. Domestic consumers bought the metal freely early in the month, and showed a disposition thereafter to take advantage of recessions in prices, though purchases were made on a reduced scale. Nearby tin is now offered at 41.25 cts. The statistics regarding the metal continues to favor the seller's side of the market. Arrivals at Atlantic ports during 30 days of October were only 2,574, which will be approximately the new supply available for shipment into consumption. While there has been contraction in tin consuming industries, the probabilities are that shipments will exceed that amount by several hundred tons, and reduce the surplus held Sept. 30 proportionately. Stocks of tin including on dock and landing at that date were 2,075 tons. An important feature of the month under review is the new tin contract which has been approved by the London Metal Exchange authorities. The innovation became operative Nov. 1, and whereas only Straits, and Australian tins were deliverable on the present standard contracts, settlements of 3 months contracts from now on will include practically all brands analyzing 95% and above.

Lead.—The American Smelting & Refining Co. made two reductions in its price of pig lead during October, aggregating 25 cts. per 100 lbs. Independent sellers promptly met the cut to 4.25 cts. in New York, and a large volume of business was attracted.

The outside sellers are asking a shade more than the leading interest, the former quoting 4.30 cts. in New York, and the latter 4.25 cts. for shipments. The present demand is light.

Specialties are quoted as follows:

	Per lb.
Sheet lead:	
Large lots	6.25 cts.
Small lots	6.75 cts.
Lead Pipe:	
Large lots	5.75 cts.
Small lots	6.40 cts.

Spelter.—While the lead market was declining the price of spelter advanced steadily, with a pronounced lack of supplies of the metal to meet a good demand. A basis of 6.30 cts. in New York has failed to bring forth freer offerings. Talk is heard of a further advance when producers begin to shut down as a result of poor gas supply during the winter months. It is likely however, that the recent advance discounted that contingency.

Roofing Copper.—The excellent demand for heavy sheet copper that prevailed during past months has diminished appreciably. Prices, however, are maintained at the level of the busy period at 16 to 16½ cts.

Miscellaneous Metals.—Small lots of metal and metal products can be obtained from jobbers' stores, New York, at the following prices:

	Per lb.
Bismuth	$2.25
Brass tubes, iron pipe sizes:	
½-in.	.19
¾ to 3-in.	.18
3½-in.	.19
4-in.	.20
Brass sheets	.14¼
Brass, rods	.14¼
Solder, ½ and ½ guaranteed	.27½
Zinc, sheets	.08½
Manganese bronze rods	.16
Manganese bronze in crucible form	.14
Monel metal, ingot	.16

Old Metals.—Miscellaneous lots of scrap metal, amounting to about a ton, can be sold to dealers in New York at about the following prices:

	Cents.
Copper, heavy & crucible	10.75 to 11.00
Copper, heavy and wire	10.50 to 10.75
Copper, light and bottoms	9.50 to 9.75
Brass, heavy	7.00 to 7.25
Brass, light	5.50 to 5.75
Heavy, mach. composition	9.25 to 9.50
Clean brass turnings	7.00 to 7.25
Composition turnings	8.25 to 8.50
Lead, heavy	.... to 3.75
Lead, tea	.... to 3.50
Zinc, scrap	.... to 4.00

MISCELLANEOUS.

Waterproofing.—The prices for carload lots, f. o. b. cars New York, are as follows: Hydrex waterproofing felt, $1.25 per 100 sq. ft.; Hydrex compound "A," 26 cts. per gal.; Hydrex compound "B," 18 cts. per gallon.

Texaco waterproofing cement is $30 per ton in car lots, f. o. b. cars New York or Philadelphia.

Asphaltum for waterproofing is sold at $26 to $27 per net ton.

Glidden, graphic acid proof coating is sold at $1.25 per gal. in bbls. and ½ bbls., and $1.40 per gal. in 5-gal. cans. These prices are f. o. b. Cleveland or for delivery from warehouse, New York, Chicago, St. Louis, Boston or Atlanta.

Roofing Slate.—Prices are steady and unchanged but trade is dull. Quotations are named for "square" or 100 sq. ft. of roof surface in carload lots of the sizes in most general use, f. o. b. quarry station:

	Prices per 100 sq. ft.
Vermont, sea green	$3.50 to $4.10
Pennsylvania, Bangor Ribbon	3.50 to 4.00
Maine, Brownsville No. 1	5.00 to 7.75
Maine, Brownsville No. 2	4.50 to 6.00
No. 1 Red	10.50 to 12.00
Unfading Green	4.00 to 5.50
Genuine Bangor	4.00 to 6.50
Pen Argyle	4.00 to 5.50

Rope.—The market continues steady and prices are without change as follows:

Pure Manila is 8½ to 9 cts. per lb.; second grade, 7½ to 8 cts.; hardware grades, 7 to 7½ cts. per lb. Pure Sisal is 6½ cts. for the highest grades, and 6 cts. for less desirable grades. Jute rope in commercial sizes is 6 to 6½ cts. per lb.

Explosives.—Dynamite of the kind usually used by contractors is approximately 11 to 13 cts. per lb., f. o. b. factory, in ton lots. Blasting powder, classified as "soda" grade, is sold at $1.20 to $1.40 per keg, of 25 lbs. in lots of 10,000 lbs. The following prices prevail on Trojan in carload lots, minimum, 24,000 lbs., f. o. b. Pacific Coast points: No. 1, 13½ cts.; No. 2, 10½ cts.; No. 3, 10 cts. They have a disruptive force equivalent to 60%, 40% and 30% of nitro-glycerine.

Exploders, per hundred, are sold at the following prices: 4 ft., $3.60; 6 ft., $4.10; 8 ft., $4.60; 10 ft., $5.10; 12 ft., $5.60; 16 ft., $6.60; 20 ft., $7.50; 20 ft., $9.40; 30 ft., $12; 36 ft., $14.60.

Caps in lots of 10,000 are $7 to $8 per thousand.

Blasting machines for 10 holes are $12; 25 holes, $20; 50 holes, $40; 100 holes, $60.

Roofing Cement.—Prices are unchanged at $25 per ton for Texaco.

Rubber.—Prices have been slowly sagging all through the month, and it is felt in the trade that there are a good many orders to be filled when up River Para declines to $1. This is seemingly the mark set by buyers, and it is now known that numerous orders have been given to the trade to buy copper at $1 a lb. It frequently happens, however, in a case of this kind that as consumers see the market slowly sag day by day they withdraw their price, and prices go to an even lower level. The buying is fair, but it is not especially active and it must be remembered that this is a small consuming trade. Quotations are as follows: Up River Para, fine, $1.01 to $1.04; up River Para, coarse, 89 and 92 cts.; Caucho ball, 92 to 93 cts.; Guayale, 45 to 50 cts. African rubbers are slightly easier, Massai red being quoted 90 to 92 cts. and Niggers at 85 to 90 cts. Scrap rubber is easier owing to the larger supply.

Asbestos.—Asbestos building felt and sheathing in less than ton lots is 3½ cts. per lb. for the light, weighing from 6 to 30 lbs. per 100 sq. ft.; 4 cts. per lb. is charged for the heavy, weighing from 45 to 56 lbs. per 100 sq. ft.

Millboard is made in standard sheets, 40 × 40 ins., and 41 × 40 ins. It varies in thickness from 1/32 to ½-in. and in weight from 2 to 27 lbs. per sheet. The net price in 100-lb. lots is 5 cts. per lb.

Transite, asbestos wood, used for fireproofing, ventilators and smoke jacks, comes in standard sheets, 36 × 48 ins., 42 × 48 ins., and 42 × [illegible] ins. The prices, f. o. b. factory, Nashua, N. H., are as follows:

Thickness.	Weight	Price.
⅛-inch	1 lbs.	$0.08
3/16-inch	1½ lbs.	.12
¼-inch	2 lbs.	.16
5/16-inch	2½ lbs.	.20
⅜-inch	3 lbs.	.28
7/16-inch	3½ lbs.	.28
½-inch	5 lbs.	.32
9/16-inch	4½ lbs.	.36
⅝-inch	5 lbs.	.40
¾-inch	6 lbs.	.44
⅞-inch	7 lbs.	.48
1-inch	8 lbs.	.52
1¼-inch	10 lbs.	.56
1½-inch	12 lbs.	.64
1¾-inch	16 lbs.	.72
2-inch	16 lbs.	.80

Paper.—Prices are unchanged from last month, as follows:

Tarred Paper:	Per roll of 100 sq. ft.
Standard, 2-ply, 40 lbs.	$0.40 to $0.45
Extra heavy, 2-ply, 45 lbs.	.50 to .55
Standard, 3-ply, 60 lbs.	.60 to .65
Extra heavy, 3-ply, 70 lbs.	.70 to .75

Rosin, Sized Sheathing:	Per roll of 500 sq. ft.
Light, 25 lbs.	$0.38
Medium, 30 lbs.	.45
Heavy, 40 lbs.	.60

Lighterage Limits.—The free delivery or "Lighterage Limits" in New York City are as follows: In Manhattan, from a point opposite the Fort Lee ferry, south along the Hudson River around the Battery and north along the East and Harlem Rivers to the Jerome Ave. Bridge at 155th St. In New Jersey, south from Fort Lee ferry to Bayonne City, points on the north and east shores at Staten Island, between Bridge Creek (Arlington) and Clifton, both inclusive, and including Elm Park, Erastina and Shooters Island. In Brooklyn, from 69th St., Bay Ridge, north to Port Cove, Astoria, Long Island City.

INDUSTRIAL NOTES.

Orders have been placed by the E. I. Du Pont De Nemours Powder Co., Carney's Point, N. J., with the Ruggles-Coles Engineering Co. for two machines to dry iron pyrites without the loss of sulphur, thus necessitating the use of a constant low temperature.

Plans for a water supply and sewer-system at Caracas, Venezuela, for a New York engineering firm, will be drawn by Samuel A. Greeley, Supt. Garbage Incinerating Plant, Milwaukee, Wis., and formerly an engineer with Hering & Fuller, Consult. Engrs., New York.

New securities have been issued by American corporations during the first ten months of this year to the extent of $1,515,000,000 compared with $1,290,000,000 in the corresponding months of 1910, according to a recent compilation by the "Journal of Commerce," New York.

The largest order for centrifugal pumps ever given by the Government is now being shipped to the Brooklyn Navy Yard by the Alberger Pump Co., New York, N. Y. The contract calls for eleven 54-inch main pumps, and seven 15-inch drainage pumps with all equipment.

Under the redistribution of seats in the House of Commons which will follow the basis of representation, will be changed from one seat to 25,000 to one seat to 20,000 population, the representation of the province of Quebec being fixed by the British North American act at 65 members. The total membership will be 232 members.

The Garwood Electric Co., of Garwood, N. J., for which Mr. Charles N. Fowler, Jr., of Elizabeth, N. J., has been appointed Receiver in Chancery, is not only completing its unfilled orders, but is also taking new business. All of the branch offices of the company are soliciting business as usual, and re-organization plans are now being considered.

The Northern Equipment Co., Chicago, Ill., announce that it has completed a Sales arrangement for its "Copes" boiler feed regulators and "Copes" pump governors with Dravo-Doyle Co., Pittsburgh, Pa., who have recently established a Steam Specialty Department, with headquarters in Pittsburgh, covering the Pittsburgh, Cleveland, Philadelphia, Chicago and West Virginia territories.

The Canadian Census has been completed and the figures announced are a great disappointment to Canadians, as the total population, which is given as 7,081,869, is a million less than was expected and confidently claimed during the last few years. The population of Canada by the census of 1901 was 5,371,315. The population of some of the principal cities and their gains are as follows:

	Population.	Gain.
Montreal	466,197	198,467
Quebec	78,067	9,227
Toronto	376,240	168,200
Winnipeg	135,430	93,090
Vancouver	100,333	73,323
Victoria	31,620	10,804
Edmonton	24,882	22,250
Regina	30,210	27,961
Saskatoon	12,002	11,889
Moosejaw	13,824	12,266
Ottawa	86,340	26,412

(See also page 210.)

CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, November 2, 1911.

RAILWAYS.

(*Denotes that this work is advertised in *Engineering News*.)

Georgia.—Atlantic Coast Line Ry.—It is reported that this company will construct an etension of its line from Monticello to Perry. E. B. Pleasants, Wilmington, N. C., is Ch. Engr.

Alabama.—Chattahooche Valley Ry.—This company proposes to construct a line from a point on the Seaboard Air Line, in Russell County, Ala., through Eufaula, Ala., to St. Andrews Bay, Fla. J. T. Barker, West Point, Ga., is Gen. Mgr.

Alabama. — Montgomery-Chattanooga Ry.—This company has been granted ed a franchise to construct a line entering Montgomery.

+Alabama.—It is reported that a contract has been let to P. W. TURNER, Birmingham, Ala., by the Kaul's Lumber Co. lines, to build a line southeast from Tuscaloose, about 25 miles. The maximum grades will be 1½% and maximum curvature 8°. John L. Kaul, is Pres., Birmingham, Ala.

Tennessee.—Jonesboro, Lake City & Eastern R. R.—This company is planning to construct a line from Wilson, Ark. to Memphis, Tenn. W. H. Smith, Jonesboro, Ark., is Gen. Mgr.

Kentucky.—Louisville & Nashville R. R.—Engineers are in the field surveying a route for a proposed line from Paris to Mt. Stirling. W. H. Courtney, Louisville, is Ch. Engr.

Indiana.—Terre Haute & Ohio River Ry.—This company has recently been organized for the purpose of constructing a line from a point on the Wabash River to Harrisburg, Ind., and from there to a point on the Ohio River in Hardin County. The principal incorporator is Philip S. Casford, Chicago, Ill.

Indiana. — Evansville, Chrisney & Eastern Ry.—This company has decided to build a line from Boonville to Chrisney and Lynnville.

Michigan.—Saginaw Bay Southwestern Ry.—This company has been organized for the purpose of building a line from Owosso to Saginaw. Albert I. Jacob, Detroit, is interested.

North Dakota.—Great Northern Ry.—It is reported that this company has decided to make extensions of the Great Falls-Lewiston Branch from either end of the line and so construct it that the road will have a line running from the northwestern to the southwestern corner of Montana.

Texas.—San Antonio, Rockport & Mexican Ry.—This company has been chartered for the purpose of building a railway from San Antonio to Harbor Island. The road will be 350 miles long.

Texas.—Marshall & East Texas R. R.—This company is planning to build an extension from Elysian Fields, Tex., south to Newton, about 120 miles, where connection is to made with the Orange & Northwestern. It is also planned to build an extension from Winsboro, north to Paris, about 50 miles. R. J. Lockwood, Marshall, Tex., is Ch. Engr.

+Texas.—Pearson & Peacheco R. R.—The contract for grading the line of the Pearson & Peacheco R. R. has been awarded to BOWMAN & LARSON, Oaso, Texas.

Oklahoma. — Atchison, Topeka & Santa Fe Ry.—It is reported that this company is planning to construct a line running northwest through Oklahoma from Woodward, Okla., through Beaver, crossing the El Paso & Southwestern System at Liberal, Kan., and enter the corn belt in that state. C. A. Morse, Topeka, Kan., is Ch. Engr.

Arizona.—Southern Pacific Co.—Surveys are being made for a proposed branch of this company's line from Huachuca to Fort Huachuca, a distance fo seven miles.

Washington.—Oregon-Washington R. R. & Navigation Co.—It is reported that this company has incorporated a subsidiary company to build an extension from North Yakima to Poine Mole, connecting with its line between Seattle & Auburn. The projected line will be 117 miles long and will run parallel with the Northern Pacic.

California.—Clear Lake Ry.—This company will soon begin the construction of a line running east from Hopland, 9 miles. C. R. Rankin, Lakeport, is Ch. Engr.

Ontario.—Temiskaming & Northern Ontario Ry.—This company is planning extensions of its lines to the wharves at Haileybury. S. B. Clement, North Bay, Ont., is Ch. Engr.

+British Columbia.—Canadian Pacific R. R.—A contract has been given by this company to BURNS & JOHNSON, to build a line from Fort Steele, B. C., to Skookumchuck, a distance of 60 miles. J. G. Sullivan, Winnipeg, Man., is Ch. Engr.

ELECTRIC RAILWAYS.

(+*Denotes a contract awarded.*)

Pittsfield, Mass.—The Massachusetts Railroad Commission has approved plans for an extension of the Berkshire St. Ry. in Great Barrington and for a line over private land in Otis, near Becket. The company has received local franchises. C. Q. Richmond, Pittsfield, is Gen. Mgr.

Hartford, Conn.—A franchise has been asked by the Connecticut Co. to double-track its lines on Prospect Ave., from Farmington to Asylum Ave. W. P. Bristol, Hartford, is Local Mgr.

Tonawanda, N. Y.—A franchise has been received by the Frontier Electric Ry., Niagara Falls, which will connect Niagara Falls, Buffalo, Tonawanda and North Tonawanda. James E. Simmons, Niagara Falls, is Gen. Mgr.

Allentown, Pa.—A franchise has been asked by the Lehigh Valley Transit Co., to double-track its lines in Allentown, on various streets. W. W. Wyson, is Ch. Engr., Allentown.

Mauch Chunk, Pa.—A line will be built through Palmerton that will also extend between Lehighton and Slatington.

Northumberland, Pa.—The Sunbury & Northumberland Electric Ry., Sunbury, has received a franchise to extend its lines from the present terminus on Queen St. at Sixth St. to Eighth St. in Northumberland.

Petersburg, Pa.—The construction of a 15-mile line is being planned from Petersburg to McAlery's Fort by way of Shavers Creek Valley; and another is proposed to extend down Stone Valley to Huntington. Samuel Longnecker, Petersburg, is interested.

Wilmington, Del.—The West Chester & Wilmington Electric Ry. Co. will construct a section of its proposed line from Wilmington along the Concord Pike to Lombardy Cemetery, a distance of three miles. Lewis Dalmas, Morris Bldg., Philadelphia, is Pres.

Baltimore, Md.—A franchise has been received by the United Rys. & Electric Co. to extend its tracks to connect northwest Baltimore and the suburbs with southwest Baltimore. J. M. Dood, Continental Trust Bldg., is Ch. Engr.

Cumberland, Md.—The Miller-Ridgley Electric Ry. Co. has been granted a franchise to build its proposed line from Blue Ridge to Knobmount, a distance of three miles.

Morgantown, W. Va.—Plans are being considered by the South Morgantown Traction Co. for an extension along the east side of the Monongahela River to connect with an extension of the Fairmount & Clarksburg Ry. Dudley B. Britt, Clarksburg, is Ch. Engr.

Montgomery, Ala.—The Alabama Traction Co. has applied for franchises for a line on certain streets in Montgomery.

+Mobile, Ala.—The West Shore Traction Co. has awarded a contract to GEORGE H. CLARKE, Birmingham, Ala., for the construction of a line from a few miles south of the city limits of Mobile to Pascagoula, via Grand Bay and Bayou la Batre. H. Austell, Mobile, is Pres.

Knoxville, Tenn.—The Knoxville Ry. & Light Co. has received a franchise for the extension of its Sevierville Pike line to the New Island Home Park suburb.

Mt. Washington, Ky.—The Louisville Interurban Ry. proposes to extend its line from Fern Creek to Mt. Washington, about eight miles. T. J. Minary, 316 W. Jefferson St., is Gen. Mgr.

Louisville, Ky.—The Louisville Ry. Co. is preparing plans for a crosstown line which will extend from Parkland, the southwestern residence section, through the suburbs. T. J. Minary, 316 W. Jefferson St., is Gen. Mgr.

Cleveland, Ohio.—The Cleveland & Youngstown R. R. Co. has received a franchise to build across and under a number of east side streets. The specific route of the new railroad is from East 102d St. to Wamelink Ave., S. E., then to Rodulphus Ave., southeast, through East 99th St. to Woodhill Road southeast.

+Saginaw, Mich.—A contract has been awarded to MARTIN BROS., Saginaw, by the Saginaw & Flint Ry. Co., for grading and excavating a roadbed on the extension to Bay City.

+Chicago, Ill.—The Northern Illinois Electric Ry. Co. has awarded a contract to BURNS & CO. for the construction of an extension between Amboy and Rochelle.

Hamilton, Ill.—George Higginson, Winnetka, Joel D. Harvey, Geneva, and others are the incorporators of the Hamilton Ry. Co. The company contemplates building a line between Hamilton, Ill., and Keokuk, Iowa, to Warsaw.

McLeansboro, Ill. — The Egyptian Southern Ry. Co. has been incorporated to build a line from McLeansboro to Herrin. The incorporators are W. W. Williams, W. H. Hart, and George A. Powers, all of Benton, Ill.

Fergus Falls, Minn.—S. O. Bridgeton, Ulrich Huss, and Nels Hagenson have asked the City Council for a franchise to build a line in Fergus Falls.

+Omaha, Neb.—A contract has been awarded to THE BAKER CONSTRUCTION CO. for the construction of a system of interurban electric railways to connect Omaha, Norfolk, and Sioux City, Iowa, by the Nebraska Transportation Co. There will also be an electric power plant to cost $1,000,000 on the Elkhorn River at Elk City, Neb., which will be able to develop 21,000 HP.

Sioux Falls, S. Dak.—The Sioux Falls & Southern Minnesota Traction Co. has secured the right-of-way to Blue Earth, Minn., on its line between Albert Lea, Minn., and Sioux Falls, S. Dak., W. H. Knight, Chicago, Ill., is interested.

Columbia, Mo.—A charter has been applied for by the Columbia & Northern Electric Ry. Co. to succeed the North Missouri Central Ry., Mexico, and to build a line to connect Columbia, Jefferson City, and Mexico. The incorporators are A. J. Estes, and M. G. Quinn, Columbia, and others.

Greenville, Tex.—J. F. Nichols and associates are planning to build a line from Greenville to Clarksville, by way of Enloe, Cooper and Deport.

Fort Worth, Tex.—A franchise has been received by the Northern Texas Traction Co. to extend its line through the southeastern section of Polytechnic Heights. Stone & Webster, 147 Milk Ct., Boston, Mass., are Gen. Mgrs.

Aberdeen, Wash.—The Gray's Harbor Ry. & Light Co., will build a line from Gray's Harbor to Raymond and also a line from the Harbor to Puget Sound. J. D. Crary, is Pres.

Healdsburg, Cal.—The Petaluma & Santa Rosa Electric Ry. will be extended north to Healdsburg. E. M. Van Frank, 717 Balboa Bldg., is Pres.

Oakland, Cal.—Application for a franchise has been made by the Oakland Traction Co. for the construction of a line beginning at the intersection of the north boundary line of the city of Berkeley with the center line of the Arlington road to its intersection with the northern boundary line of the county of Alameda. A 50 years franchise is asked for which is practically an extension of the Euclid Ave. line.

Pasadena, Cal.—A franchise has been applied for by the Pacific Electric Ry. Co. for a line to connect Nazarine College Section with the heart of the city. Wm. F. Herrin, Flood Bldg., San Francisco, is Pres.

Sacramento, Cal.—The Vallejo & Northern Ry. Co. has applied for a franchise to build a line on Second St., from M St. to X St.

Sacramento, Cal.—The San Jose & Almaden R. R. Co., which will build a 12 mile railroad from San Jose southwesterly to New Almaden in Santa Clara Co., has filed articles of incorporation. The incorporators are Chas. Nones, C. P. Anderson, D. M. Burnett and J. F. Tatham, all of San Jose.

Sacramento, Cal.—Franchises have been granted to the Pacific Gas & Electric Co., to extend its lines in the city as follows: On T St. from 28th to 31st Sts.; on Third St., from J to I Sts. and west to Second St.; on E St. from 31st to Seventh Sts. and thence to G St.; on K St. from 15th to 21st Sts., and thence to P St. Wm. F. Herrin, Flood Bldg., San Francisco, is Pres.

San Diego, Cal.—Plans are being prepared by the San Diego Electric Ry. Co. for the construction of an extension and double tracking of several of its lines in San Diego. Wm. Mair, is Ch. Engr., San Diego.

London, Ont.—The London Street Ry., has increased its capital stock from $552,000 to an amount not exceeding $750,000. It is proposed to expend this money in extensions. H. W. Welburn, 703 Dundas St., is Ch. Engr.

+Vancouver, B. C.—A contract has been awarded to GEORGE A. WEBSTER for grading four miles of track between 24th Ave., Point Grey, and Eburne.

LIGHT AND POWER PLANTS.

(*Denotes that this work is advertised in *Engineering News*.)

Tilton, N. H.—The installation of a 250-HP. engine in its power plant is contemplated by the Tilton Electric Co.

Brattleboro, Vt.—The Central New Hampshire Power Co., Me., has been incorporated for the purpose of developing extensive water powers which have been acquired in Sullivan, Merrimack, Hillsboro and Grafton Counties, N. H. It is estimated that 100,000-HP. can be generated. This will constitute the largest waterpower project in New England and the seventh in size in the United States, utilizing the water power on the Mascoma, Blackwater, Smith, Warner and Contoocook Rivers. The officers are: Robert C. Bacon, Brattleboro, Pres., Clarence E. Eaton, Portland, Me., Treas.; James E. Manter, Portland, Me., Clk. Stone & Webster, 147 Milk St., Boston, are the Engrs.

+Riverside, Conn.—A contract has been awarded to the HARRIS CONSTRUCTION CO., Stamford, to build a plant here, for the Stamford Gas & Electric Co., Stamford, $20,000. It will be fireproof, having cement floors, copper roof, and steel sashes; it will consist of five buildings—generating house, purifying plant, meter house, and two smaller buildings which will be used for pumping purposes.

+Binghamton, N. Y.—Bids were opened on Oct. 25 by the Board of Contract and Supply for the construction of a conduit system as follows: G. M. Gest, $23,000; New England Engineering Co., $22,300; Safety Insulated Wire & Cable Co., $27,240; Watson Flagg Engineering Co., $26,000. The contract was awarded to G. M. GEST at a price not to exceed $22,200.

Groton, N. Y.—Bids are being asked by the Board of Water and Light Commissioners for a 100 to 150-KW. direct-connected, 250-volt steam unit and generating set for a 3-wire system. E. A. Hayden is Secy.

Little Falls, N. Y.—A municipal electric light plant is contemplated, and a committee, to decide upon the advisability of construction, has been appointed. Matthew A. Leahy is City Clk.

Port Jervis, N. Y.—Plans are being considered to build a dam on Shohola Brook at the falls, about seven miles from where the brook empties into the Delaware River. A power house to be located near the river. John G. Hillard and W. V. Hillard, owners of the Shohola property, are interested.

New York, N. Y.—Bids will be received by the Department of Public Charities, foot of East 26th St., until 2.30 p. m., Nov. 6, for the installing of new lighting equipments and rearranging such old equipment as specified, at the Morgue building and buildings on dock at foot of East 26th St. Plans, specifications and further information may be obtained at the office of the Supervising Engineer of the De-

Proposed Work in Pittsburgh, Pa.

Next year the city contemplates expenditures for public improvements aggregating about $7,000,000, mostly for improvements which were voted on at the bond election in 1910.

Joseph G. Armstrong, Comr. of Public Works is preparing a list of the more important items among which are the following: For widening Kirkpatrick St., $50,000; new city hall, $1,500,000; city playgrounds, $800,000; widening Hamilton Ave., $300,000; relocating widening and improving Second Ave., $50,000; widening and straightening Webster Ave., $55,000; widening Warrington Ave., $80,000; Hoeveler St. Bridge, $30,000; Sylvan Ave. Bridge, $130,000; Haight's Run Bridge, $150,000; improvement of Corliss St., $150,000; public park improvements, $200,000; addition to the Aspinwall filtration plant, $200,000; Northside reservoir on Cabbage Hill, $1,200,000; Northside pumping station, $800,000; Beechview Bridge, $75,000; total, $5,770,000.

As the above improvements are being pushed, work on cutting away the Fifth Ave. "Hump" will be started. For this work, the sum of $1,000,000 will be required, provision for which will be made by the Council.

The report, calling attention to the improvement items above will be submitted as soon as possible to the Council for suggestions and action, so that the Public Works Department may start on the preparation of plans and begin actual construction as soon as the funds are secured and weather permits.

partment. Michael J. Drummond is Comr.

Bids will be received until 10.30 a. m., Nov. 6, by Joseph Johnson, Fire Commissioner, Fire Department, 157 and 159 East 67th St., for repairs and alterations to heating systems in various company quarters. Plans, specifications and further information may be seen at the office of the Department.

Newark, N. J.—A new addition to the power house at the Isolation Hospital, Soho, N. J., will be built, bids being asked until Nov. 3. Separate bids will be received for the boiler and coal handling installation. Hurd & Sutton, 819 Union Bldg., Newark, are the Archs. Louis E. Voorhees is Chn. of the Building Committee of the Bd. of Freeholders.

Trenton, N. J.—The Public Service Electric Co. is planning to supply electricity in Cranbury, Monmouth Junction, Skillman, Hopewell and Princeton. Machinery will be installed at its plant on Chancery St., which will increase the capacity 2,000 HP.

Takoma Park, D. C.—Bids will be received by Benjamin G. Davis, 110 Oak Ave., Takoma Park, until Nov. 13 for supplying 100 electric lamps of at least 40 cp. for lighting the streets of the town of Takoma Park, D. C., for a term of two years. Noted July 27.

Washington, D. C.—The following bids were received by the Supervising Architect on Oct. 21 for installing lighting fixtures for U. S. public building at Brookhaven, Miss.; Lexington, N. C.; Milledgeville, Ga.; Mt. Sterling, Ky.; Waxahachie, Tex.; Waycross, Ga.; Big Stone Gap, Va.; Shreveport, La., and Port Arthur, Tex.: Reading Chandelier Works, Reading, Pa., $9,280; D. J. Braun Mfg. Co., Chicago, Ill., $9,728.

Roanoke, Va.—The Roanoke Street Ry. & Electric Co. is planning to improve and enlarge, which will involve an expenditure of about $235,000. The order for a new steam turbine for its steam power plant on Walnut Ave. has been placed, which will increase the output by 3,500-HP. The new turbine and equipment will cost about $45.000. Other improvements will be the construction of car barns, to cost $75,000, a substation at Mason's Creek, $15,000, and new track and street paving, $100.000.

Morgantown, W. Va.—A plan to install motor-driven pumps at its water-works pumping station is being considered by the Union Utilities Co.

Wheeling, W. Va.—Bids were opened as follows on Oct. 12 for a power house complete: Schutz, Schreiner & Clyde Co., Pittsburgh, Pa., $23,700; John W. Danforth Co., Buffalo, N. Y., $33,509; M. L. Bayard, Philadelphia, Pa., $15,-000; New Jersey Foundry & Mach. Co., New York, N. Y., $26,873; Cantrel Construction Co., Parkersburg, W. Va., $25,800. For main boiler and accessories, Casey Hedges Co., Chattanooga, Tenn., $2,398; Heine Safety Boiler Co., Pittsburgh, Pa., $2,748; M. L. Bayard, Philadelphia, Pa., $2,800; A. D. Granger Co., New York, N. Y., $2,426; E. Keller Co., Williamsport, Pa., $2,830.

Selma, N. C.—The city electric light and water-works system will be extended and improved, it is stated, to the amount of $20,000.

Atlanta, Ga.—The Georgia Ry. & Power Co. has been incorporated to consolidate a number of hydroelectric plants in the vicinity of Atlanta. This will include the plants of the Georgia Power Co., which owns the Tallulah Falls plant and the development at that point. The approval of the Georgia Railroad Commission is asked for an issue of $30,000,000 of bonds, bearing 5% interest and to run 65 years, secured by a deed of trust to the Fidelity Trust Co., of Philadelphia. Charles Magee, Toronto, Ont., is Pres. and Forest Adair, Atlanta, Ga., is Secy.

Waverly, Tenn.—The city proposes to purchase the electric light plant and water-works from the Lucas Land & Lumber Co., Waverly, and to make additions and improvements.

Fremont, Ohio.—Bids will be received until Nov. 21 by the Board of Public Service for a new electric lighting contract for a period of ten years. An expenditure of $150,000 will be involved.

Greenville, Ohio.—A meeting of the stockholders of the Greenville Electric Light & Power Co. has been called for the purpose of voting to increase the capital stock of the company from $55,000 to $75,000, to be used to enlarge the capacity of the plant.

Angola, Ind.—An ornamental street-lighting system is being considered by the City Council.

Indianapolis, Ind.—The installation of a power plant in connection with the sewage-disposal plant is under consideration by the Board of Public Works. H. E. Klausman is City Engr.

Ann Arbor, Mich.—The construction of a power plant on the Huron River at Ann Arbor will be started in the near future by the Eastern Michigan Co., capable of developing 800-HP. Gardner S. Williams is Arch. in charge. The cost is estimated at $250,000.

Belmont, Ill.—The installation of an electric plant is being considered.

Champaign, Ill.—Bids will be received, until Nov. 4, by the City Council for lighting the streets with electricity, gas or gasoline for a period of ten years. N. M. Woodward is City Clk.

Freeport, Ill.—Improvements at the power plant owned by the Freeport Ry. & Light Co. are contemplated.

Chatsworth, Ill.—A transmission line from Cabery to Cullom by way of Kempton is contemplated by the Chatsworth Electric Co. Peter Hiswell, Chatsworth, is Ch. Engr.

Chicago, Ill.—Bids are being asked by the Metropolitan West Side Elevated Ry. Co. for the erection of a 1-story substation to be located on 259 South Franklin St.

Clinton, Ill.—The installation of electrical pumping machinery at the municipal water-works pumping station is under consideration. Charles Dickerson is Comr. of Public Buildings.

Galena, Ill.—An ornamental street-lighting system is being considered by the Interstate Light & Power Co.

Columbus Junction, Iowa.—A. W. Willis and others have applied for a franchise for an electric light plant. A vote will be taken on Nov. 28. W. D. Haupt is City Clk.

Duluth, Minn.—Specifications for a municipal electric light plant have been prepared by Oscar Claussen of St. Paul and Charles L. Pillsbury of Minneapolis. The cost is estimated at $901,798.

Hendricks, Minn.—Ernest Snelser has been granted a franchise to install and operate an electric-light system.

Kerkhoven, Minn.—The erection of an electric light plant is being considered.

Minneapolis, Minn.—It is proposed to erect 130 additional ornamental street lamps in the central section of the city.

The Bridge Square Improvement Association is advocating the installation of ornamental lamps on Washington Ave., between Hennepin and Nicollet Aves., and on First Ave., between Washington Ave. and High St. and in the vicinity of the Minneapolis, St. Paul & Sault Ste. Marie Ry. station.

Saint Cloud, Minn.—Bids will be received by the State Board of Control, until 2 p. m., Nov. 6, for exhaust ventilating system for Cell Houses A, B and C at the State Reformatory. C. L. Pillsbury, 805 Metropolitan Life Bldg., Minneapolis, Minn., is Engr.

Clay Center, Kan.—Bids will be received at the office of the Supervising Architect, Treasury Dept., Washington, D. C., until 3 p. m., Nov. 20, for a heating system in the U. S. Post Office, Clay Center. Plans and specifications may be had at the above office or at the office of the superintendent of the building. James Knox Taylor is Superv. Arch.

Kearney, Neb.—The installation of a municipal electric-light plant is contemplated by the City Council. Plans and estimates have been made. Reports state that the plant will be operated in connection with the city water-works system, where some machinery is available, which makes it necessary to install only one boiler and electric generator. The present plan is to light Central Ave. from 19th St. to the Midway Hotel, using ornamental standards with cluster lamps; also to furnish electricity for 217 lamps at street intersections and public parks and school houses in the city.

Neligh, Neb.—The installation of an ornamental lighting system on the business streets is being promoted by a group of business men. The present plan is to replace the arc lamps now being used with ornamental standards and cluster lamps.

Omaha, Neb.—See item under Electric Railways.

Ruby, Mont.—The Madison River Power Co. is planning to install a lighting and power system between Ruby and Virginia City. It is reported that a transformer station will be built at Laurin.

Harlingen, Tex.—See item under Water Supply—Irrigation.

Waco, Tex.—The City Commission will not install an electric light and power plant. This action is taken for the reason that the commission has entered into a 10-year contract with the Waco Gas & Electric Co. to supply the city with lights.

Yoakum, Tex.—The Yoakum Improvement Co. will install a new 500-HP. engine and a new 150-KW. generator in its electric light plant here. It will also make improvements to its water-works system. J. W. Greer is Supt.

Kingfisher, Okla.—See item under Water Supply—Irrigation.

Ponca, Okla.—A bond issue for the purpose of building an electric light plant is under consideration.

Colorado Springs, Colo.—Bids will be received until Nov. 6 for the construction of a power plant to be erected at the tuberculosis colony of Modern Woodmen of America.

✚Ogden, Utah.—A contract has been awarded to the FALKENAU ELECTRICAL CONSTRUCTION CO., Chicago, Ill., by the Merchants' Light & Power Co., to complete the permanent substation equipment and construct main trunk lines to all parts of the city. The cost is estimated at $75,000.

Fallon, Nev.—See item under Water Supply—Irrigation.

Yuma, Ariz.—A permit has been granted to the Yuma Electric & Water Co. for the construction of an addition to its electric-power plant. Samuel DeCorse is Supt.

Sedro-Woolley, Wash.—Bids will be received by State Board of Control, Olympia, until noon, Nov. 6, for the erection of a concrete and steel power house; also mechanical equipment, boilers, engines, etc., to be installed at the Northern Hospital for Insane. Plans and specifications may be seen at office of Saunders & Lawton, Archs., 1319 Alaska Bldg., Seattle, and at the office of the Builders and Employers' Association, Tacoma, also at the office of John K. Dow, Paulsen Bldg., Spokane.

Chelan, Wash.—The Great Northern R. R. Co. has under consideration a plan to erect a hydroelectric plant on the Chelan River gorge, near Chelan. H. M. Herzog, Seattle, Wash., is Engr.

Baker City, Ore.—The Central Oregon Power & Irrigation Co. has been organized to irrigate land in Harney County, Ore., by pumping water from Malheur Lake and using power generated from Blitzen River. W. C. Parrish, Engr., 474 North Seventh St., Walla Walla, Wash., is interested.

Bakersfield, Cal.—The San Joaquin Light and Power Co. is planning, it is stated, to erect a transmission line from Bakersfield for a distance of 17 miles out of the city.

✚Hawthorne, Cal.—A contract has been awarded to the SOUTHERN CALIFORNIA EDISON CO. by the Board of Supervisors of Los Angeles County for the installation of 75 street lamps.

Los Angeles, Cal.—See item under "Buildings."

✚The Pacific Electric Ry. Co. awarded a contract to the GENERAL ELECTRIC CO., Schenectady, N. Y., for one motor-generator set, one 17-KW., 500-125-volt exciter and three 450-15,000: 13,500-2,250-volt core-type transformers.

✚Los Angeles, Cal.—A contract has been awarded to the LLEWELLYN IRON WORKS, Los Angeles, for installing four direct-connected electric freight elevators in the 5-story building being erected at Second and Central Ave., for the Haas Building Co. Morgan, Walls & Morgan, Los Angeles, Cal., are the Archs.

✚The Planada Development Co., Los Angeles, has awarded a contract to the ORNAMENTAL CEMENT STONE CO. for 70 concrete lamp standards for a street-lighting system in Planada.

Bids were opened Oct. 23 by the Board of Public Works for electric machinery at the Aqueduct known as San Franscoquito No. 1 Power Plant as follows: Westinghouse Electric & Mfg. Co., Pittsburgh, Pa., (1) $69,900, alternatives, $69,700-$71,400; (2) $93,063, alternatives, $95,098-$88,178; (3) $20,470; (4) $2,930; (5) $4,142; (6) $5,570. All these are f. o. b. Pittsburgh. Allis-Chalmers Co., Milwaukee, Wis., (1) $94,950, alternatives $94,800-$98,000, f. o. b. Milwaukee; (2) $175,039, f. o. b. Norwood, Ohio; (3) $29,500, f. o. b. Milwaukee; (4) $32,000, f. o. b. Milwaukee; (5) $8,855, f .o. b. Norwood; (6) $10,108, f. o. b. Norwood. General Electric Co., Schenectady, N. Y., (1) $99,856, alternatives $89,936-$101,425-$101,011, f. o. b. Schenectady; (2) $103,347, alternatives $102,660-$97,871-$97,065, f. o. b. Pittsburgh; (3) $28,640; (4) $3,627; (5) $4,-680; (6) $5,811, all f. o. b. Schenectady.

Lakeport, Cal.—A 50-year franchise has been granted by the Board of County Supervisors to James A. Gunn, Jr., to erect and maintain electric transmission lines over the county roads and public streets in Lake County.

Mentone, Cal.—The construction of an addition to the transformer station is being considered by the Pacific Light & Power Co. C. A. Luckenbach, Los Angeles, is Mgr. of Construction.

Roseville, Cal.—The proposition of erecting a lighting plant for which a bond issue was made about a year and a half ago and has lain dormant, has again been taken up.

Redding, Cal.—The Northern California Power Co., San Francisco, is reported to have decided to erect a power plant capable of generating 120,000 HP. The cost is estimated at $4,000,000.

✚San Bernardino, Cal.—A contract for constructing a power line from San Bernardino to Bishop has been awarded to T. C. DOBBINS by the Southern Sierras Co. The work will include the erection of 2000 steel towers and the stringing of heavy power cables.

Beachville, Ont.—Press reports state that the installation of an electric-light system is projected and that power will be supplied by the Hydro-electric Power Commission. The proposition will be submitted to the rate-payers.

Galt, Ont.—A plan is on foot to utilize Niagara power to operate the municipal water-works pumping station. It is proposed to use 100 HP. to be furnished by the Hydroelectric Power Commission. An appropriation of $5,-000 to be used for this purpose has been made.

BRIDGES.

(*✚Denotes a contract awarded.*)

Portsmouth, N. H.—Bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, until 11 a. m., Nov. 25, for constructing a combined railway and highway bridge at the Navy Yard, Portsmouth. The structure will be approximately 40 ft. wide and 300 ft. long, consisting of five 60-ft. plate girder spans, resting on granite piers and abutments. Specifications are on file at the office of Engineering News.

New Haven, Conn.—Plans are being prepared by the engineers of the New York, New Haven & Hartford R. R. Co. for a bridge over the tracks at Ferry St. The structure will be 50 ft. wide and 135 ft. long, of either concrete or steel. Edward Gagel, New Haven, is Ch. Engr.

Fulton, N. Y.—Press reports state that bonds for $80,000 have been sold for the construction of a concrete bridge at Broadway.

Schuylerville, N. Y.—Bids for reconstructing the bridge over Hudson River at Schuylerville were received Oct. 24, by Charles E. Treman, State Supt. Pub. Wks., Albany, as follows: Lathrop, Shea & Henwood, Buffalo, $25,650; Lupfer & Remick, Buffalo, $26,-990. The engineer's estimate was $23,550.

..Beaver Falls, Pa.—Bids will be received by the Board of Commissioners of Beaver County until noon, Nov. 3, for constructing a bridge over Two Mile Run in Borough Township. George W. Sweeney is Clk.

McKees Rocks, Pa.—The County Commissioners are considering the construction of a bridge to extend from Chartiers Ave., McKees Rocks, to Windgap Ave., Chartiers Township. Estimated cost $75,000.

Vicksburg, Miss.—Bids will be received until noon, Nov. 6, by J. D. Laughlin, Chancery Clk., Warren County, for repairing the bridge over Big Bayou, near Hennessey Pl., in accordance with plans and specifications on file with the Clerk.

Owensboro, Ky.—A 125-ft. steel bridge, estimated at $5,000, will be constructed over Blackford Creek on the road between Powers and Wartman. The cost of the structure will be shared by Daviess and Hancock Counties.

✚Hamilton, Ohio.—The contract for constructing a bridge over Grand Boulevard has been awarded to AL. S. FOX at $7,562. Engineer's estimate, $10,502.

Lima, Ohio.—Plans have been prepared for the construction of a bridge at Pine St. Estimated cost, $9,000.

Cincinnati, Ohio.—Bids will be received by the Board of Commissioners of Hamilton County until noon, Nov. 24, for constructing a concrete culvert on Sycamore Ave. Stanley Strouble is Pres., and Fred Dreihs is Clk.

Hazleton, Ind.—The Commissioners of Knox County are considering the construction of a bridge at Hazleton, estimated to cost from $60,000 to $80,-000. Dr. E. B. London, Hazleton, is interested.

Marysville, Kan.—Bids will be received by the Board of County Commissioners until Nov. 6, for constructing seven bridges, as follows: a 75-ft. span, a 60-ft. span, a 55-ft. span, two 50-ft. spans, and two 40-ft. spans. A. A. Kork is County Clk.

Omaha, Neb.—See item under "Electric Railways."

Sandpoint, Idaho.—Bids will be received by the Board of County Commissioners until 10 a. m., Nov. 6, for building a steel bridge at Bonners Ferry. Robert McCrea is Clk. of Bd.

Auburn, Cal.—Bids will be received by the Board of Supervisors of Placer County until 10 a. m., Nov. 7, for the construction of a 50-ft. steel I-beam and reinforced-concrete bridge across Auburn Ravine. Marshall Z. Lowell is Clk. of Bd.

Modesto, Cal.—Bids will be received by the Clerk of the Board of Supervisors until 10.40 a. m., Nov. 14, for the erection of a bridge over main lateral of Turlock Irrigation District, between Sections 3 and 34, in accordance with plans and specifications on file with the Clerk.

Redwood City, Cal.—Bids will be received by the Board of Supervisors until 10 a. m., Nov. 6, for the construction of a concrete bridge on Purissims Creek and Mill Road, Fourth Road District, San Mateo County, according to plans and specifications on file with Joseph H. Nash, Clk.

Stockton, Cal.—Bids will be received by the Board of County Supervisors until Nov. 6, for constructing a bridge and culverts along the Tracy-Varnallis Road.

✚Centerville, Cal.—A contract for constructing four pile bridges across Kings River sloughs has been awarded to R. F. BALL, at $8,000.

Merced, Cal.—Bids will be received by the Board of County Supervisors until 10 a. m., Nov. 14, for constructing a concrete and wooden bridge, 58 ft. long, over South Slough, on the Merced and Dugan Ranch Road. Plans and specifications are on file with P. J. Thornton, Clk. of Bd.

✚Red Bluff, Cal.—The contract for constructing a steel bridge over Coyote Creek, on the Red Bluff and Tehama Road has been awarded to the PACIFIC BRIDGE CO., at $6,220.

Sacramento, Cal.—Bids will be received by E. F. Pfund, Clk. Bd. of Supervs., until 2:30 p. m., Nov. 6, for constructing a reinforced-concrete arch bridge across Willows Road, on the Clarksville Road, near Folsom, and until 2:30 p. m., Nov. 9, for a reinforced-concrete bridge over Alder Creek, on the Prairie Road, near Folsom.

✚Willows, Cal.—The contract for building the Funk Creek bridge west of Deloran has been awarded to GRAHAM & JENSON, at $5,000.

Burlingame, Cal.—Bids will be received by the Board of Supervisors of San Mateo County until 8 p. m., Nov. 6, for constructing a concrete bridge over the creek at Oak Grove Ave. J. R. Murphy is Clk.

BUILDINGS.

(*Denotes that this work is advertised in Engineering News.)

Beverly, Mass.—Plans have been completed by Cass Gilbert, 11 East 24th St., New York City, for the construction of a library building on Winter St. The cost will be about $100,000.

+Boston, Mass.—The contract has been awarded to WHIDDEN & CO., 155 Milk St., for the construction of a public garage for Gov. E. N. Fosson, Beacon St. The cost will be about $50,000. Plans by Arthur H. Bowditch, 7 Water St.

+Boston, Mass.—The contract for the construction of the 12-room school on Magnolia St., Dorchester, has been awarded to A. VARNERIN CO., 101 Tremont St. The cost will be about $65,000. Charles Logue is Chn. School House Com.

Boston, Mass.—Bids will be received until 3 p. m., Dec. 28, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of the extension, remodeling, etc., of the U. S. Customhouse, Boston, Mass. Drawings and specification may be had at this office or at the office of Peabody & Stearns, 53 State Street, Boston, Mass., at the discretion of the Supervising Architect on or after Nov. 10.

Cambridge, Mass.—Plans have been completed by Harry D. Joll, 413 Broadway, Chelsea, for the construction of a $60,000 apartment block on Massachusetts Ave.

Cambridge, Mass.—An addition will be built to the warehouse of the Metropolitan Storage Warehouse Co., on Massachusetts Ave. The estimated cost is $100,000. Peabody & Stearns, 53 State St., Boston, are the Archs.

Gilbertville, Mass.—A library building is to be constructed by the George H. Gilbert Manufacturing Co. L. N. Gilbert is Pres.

+Holyoke, Mass.—The contract for the storehouse for the Merrick Lumber Co. has been awarded to DANIEL O'CONNELL'S SONS. Plans were prepared by Ellsworth & Howes, Archs.

+Lynn, Mass.—The contract has been awarded to the SHAWMUT CONSTRUCTION CO., 161 Summer St., Boston, for the construction of a school house on Lewis St. The cost will be about $100,000.

+Northampton, Mass.—The contract has been awarded to M. C. BAILEY for the construction of a block to be constructed on Pleasant St. J. M. Dewey is the owner.

Worcester, Mass.—The United Hotels Co. will construct a 10-story hotel at Park and Portland Sts. The Bancroft Realty Co., Syracuse, N. Y., is the owner. Plans by Essenmein & Johnson, Buffalo, N. Y.

+New Haven, Conn.—The general contract for the construction of the new workshop at the New Haven County Jail on Whalley Ave., plans for which were drawn by Allen & Williams, 82 Church St., New Haven, has been awarded to LEWIS A. MILLER, Meriden, Conn., at $49,884. The other bids were as follows: Tracy Bros. Co., Waterbury, $64,000; D. G. Carmichael, New Haven, $62,272; C. W. Murdock, New Haven, $62,674; G. M. Grant Co., New Haven, $59,731; Sperry & Treat Co., New Haven, $56,099. Mason and carpenter work; H. Wales Lines Co., Meriden, $47,800; C. E. Augur, Meriden, $36,350; Alex. Johnstone Building & Construction Co., Waterbury, Conn., $35,986; G. M. Grant Co. (mason work only), $26,208; J. H. Hogan (mason work only), $22,500; C. A. Knoll & Son (carpentry work), $14,900; Harry McCaulley (carpentry work), $12,869. Plumbing and heating: Sheahan & Groark, $6,463; Rourke Bros. Co., $6,598; John D. Kelly, $3,890. Elevator, H. J. Lee, $2,885; A. B. C. Elevator Co., $2,860; Eastern Machinery Co. $2,500. The building will be heavy mill construction and three stories high.

Buffalo, N. Y.—H. P. Kerr, 2650 Main St., is completing plans for a 3-story and basement business block, 70 × 100 ft., to be erected at Main St. and Parker Ave. by the Buffalo Cement Co., Austin Bldg.

G. Morton Wolfe, 638 Ellicott Sq. Bldg., has completed plans and is receiving bids for a store building, 70 × 113 ft., to be erected at Broadway and Wilson St. by Clarence B. Hunter, 266 Genesee St.

+The contract has been awarded to PETER H. FRANK, 229 Depew Ave., for a garage and automobile showroom, 130 × 100 ft., 1-story and basement, of brick and steel, to be erected at Main and Carlton Sts. by the G. H. Poppenberg Co., 674 Main St. Estimated cost, $34,000. Ulysses G. Orr, Arch., Builders' Exchange.

Ithaca, N. Y.—Gibbs & Waltz are preparing plans for a hospital building of brick and steel, to be erected by the Ithaca Hospital Association. The estimated cost is $100,000.

+Corona (L. I.), N. Y.—The contract has been awarded to FRYMIER & HANNA, 25 West Forty-second St., New York City, at $138,300, for constructing School 92 on Hayes Ave.

New York, N. Y.—Bids are being received by Carrie Meagher, 3487 Third Ave., for the construction of two 5-story brick store and tenement buildings at Third Ave. and 168th St. Plans by Horenberger & Bardes, 122 Bowery.

Plans have been completed by John Houser, 360 West 125th St., for the construction of a 5-story brick tenement building at 179th St. and Maple Ave. The Edward Muller Co., 811 East 180th St., is the owner.

Plans have been completed by W. P. Seaver, 322 Fifth Ave., for the construction of a 6-story tenement, 150 × 86 ft., at 142d St., east of Seventh Ave. The cost will be about $250,000. The Kramer Construction Co., 35 Nassau St., is the owner.

The Hancock Construction Co., 430 West 119th St., will probably construct a 6-story tenement at 123d St. and St. Nicholas Ave. The cost will be about $160,000. Plans by Sommerfield & Steckler, 31 Union Sq.

Plans have been completed by G. Ajello, 1 West 34th St., for the erection of a 12-story apartment building at Broadway and 115th St. The cost will be about $625,000. Paterno Bros., 600 West 115th St., are the owners.

Plans have been completed by George Fred Pelham, 507 Fifth Ave., for the construction of two 5-sty tenement buildings at 174th St. east of St. Nicholas Ave. The cost will be about $90,000. The Emma Realty Co., 802 West 181st St., is the owner.

Plans have been completed by Clinton & Russel, 32 Nassau St., for the construction of a 2-story brick institute for the City of New York. The cost will be about $300,000.

Plans have been completed by Walter Haefell, 17 Madison Ave., for the construction of a 3-story fireproof garage to be constructed at West 63d St., east of Amsterdam Ave. The cost will be about $60,000. Amos R. E. Pinchot, 60 Broadway, is the owner.

Bids will soon be received by Rouse & Goldstone, 38 West 22d St., for the 3-story addition to the 8-story loft at 16 East 17th St. The cost will be about $75,000. Lida Haines, 175 Clermont Ave., is the owner.

+The contract has been awarded to WATSON & DICKENSON, 1170 Broadway, for the erection of the 5-story public school, 45, at Hoffman and 189th Sts. and Lorillard Pl. The estimated cost is $400,000.

Syracuse, N. Y.—Pres. William H. Truesdale, Pres. of the Delaware, Lackawanna and Western R. R. Co., has announced that the company will build a new passenger station here next year. This announcement is closely followed by one from E. M. Rine, Gen. Supt., Scranton, Pa., that the company also will build a new freight depot next year.

+Lakewood, N. J.—The contract has been awarded to HOWARD APPLEGATE, Lakewood, at $39,950, for the construction of a high school. Plans were prepared by John B. Thomas, 416 Third St., Lakewood.

Upper Montclair (Montclair Post-Office), **N. J.**—Plans have been prepared by Crow, Lewis & Wickenhoefer, 160 Fifth Ave., New York, for an edifice which is to be constructed by the members of the Presbyterian Church. The cost will be about $60,000.

Roselle, N. J.—It is reported the congregation of St. Luke's Episcopal Church will construct an edifice here. E. D. Tribbet is Treas.

West Orange, N. J.—It is reported that the erection of a $75,000 school, to replace St. Mark's, is proposed.

Bayonne, N. J.—It is reported that plans are being prepared for the construction of a $50,000 Y. M. C. A. building.

East Orange, N. J.—The New York Telephone Co. has filed plans for the erection of an addition to its building at 9 Baldwin St. The cost will be about $41,169.

+Elizabeth, N. J.—The contract has been awarded to WELLS & CO., Philadelphia, at $72,814 for the construction of a sanitarium at Elizabeth.

+Princeton, N. J.—The contract has been awarded to WILLIAM R. MATTHEWS for the masonry and structural work on Proctor Hall for Princeton University.

Trenton, N. J.—Plans are being prepared by Henry J. Blauvelt for the proposed $90,000 annex for the building of the Junior Order of American Mechanics to be erected on East State St. The building will be a 5-story structure of brick, stone and concrete and will contain offices, lodge rooms and a large auditorium. Bids will be received in a few weeks.

Newark, N. J.—Bids will be received by the Public Buildings Committee of the Essex County Board of Freeholders, at the Essex County Courthouse, Newark, N. J., at 3 p. m., Nov. 3, for the construction of an addition at the Isolation Hospital, Soho, N. J. Specifications may be seen at the office of Hurd & Sutton, Archs., 819 Union Bldg., Newark, N. J. Bids must be rendered for the entire work as specified, which includes masonry, iron work, carpentry, hardware, roofing and sheet metal work, painting work, plumbing and electrical work. Separate bids will be received for the boiler and coal handling installation. Louis E. Voorhees is Chn.

Pittsburgh, Pa.—The University of Pittsburgh will erect a 3-story brick building to be used as a school for dentistry. The cost will be about $60,000.

+Philadelphia, Pa.—The contract has been awarded to CRAMP & CO., Commonwealth Bldg., for the construction of a publication building for W. B. Daunders Co. The cost is $125,000.

Plans are being prepared by Joseph J. Farnan, for constructing a lodge building for the Chester Lodge of Loyal Order of Moose. The cost will be about $40,000.

A permit has been granted to Fels & Co. for the erection of a fireproof warehouse addition to their plant at the southwest corner of Woodland Ave. and Island Rd. The cost will be about $45,000.

+The contract has been awarded to the CHARLES McCAUL CO., for the construction of the Municipal Convention Hall at the Cliffs, Fairmount Park. The cost will be about $4,430,000.

+Philadelphia, Pa.—The contract has been awarded to GEORGE & BORST for constructing two additional stories and interior alterations to the Race St. portion of the Academy of Natural Science at the southwest corner of 19th and Race Sts. The cost will be about $60,000.

Johnstown, Pa.—Plans are being prepared by Seymour and Paul Davis for the construction of a $200,000 Y. M. C. A. building.

Pittsburgh, Pa.—Plans are being prepared for the construction of a building for the Carnegie Technical Schools. A. A. Hammerschlag is Dir. The cost will be about $100,000.

Pottsville, Pa.—F. X. Reilly, Pottsville, has been engaged to prepare plans for a 1-story stone edifice for the Congregational Oheb Zedek. The cost will be about $50,000.

Warren, Pa.—Plans have been completed for the construction of a Y. M. C. A. building to replace the one recently destroyed by fire. The cost will be about $100,000.

Baltimore, Md.—Revised bids are wanted for the proposed Bethany Methodist Protestant Church at Lafayette Ave. and Washington St. Plans by Owens & Sisco.

Board of Education contemplates constructing a public school in Southwest Baltimore.

+Baltimore, Md.—The Red "C" Oil Co., 410 Keyser Bldg., Baltimore, awarded the contract to JACOB PETERS, 15 East Fayette St., Baltimore, to erect a garage and storage building at Eighth and Gough Sts.

Stanislaus Russell, 2900 Clifton Ave., Baltimore, is preparing plans for a warehouse to be erected on Gay St., near Belair Market. The cost will be about $45,000.

+Benjamin Miller has awarded the contract to HENRY MAAS, 1119 Ensor St., Baltimore, to erect a warehouse at 235-237 Colvin St. Plans are by Callis & Callis, Archs., 2000 St. Paul St., Baltimore.

***Fort Monroe, Va.**—Bids will be received until 10 a. m. Nov. 14 for making repairs to stone cornices, lintels, etc., in Enlisted Men's School Bldg. Capt. R. B. McBride is Construct. Q. M. U. S. A.

+Norfolk, Va.—The contract has been awarded to J. HENRY MILLER, Baltimore, Md., for the construction of an office building for the Royster Guano Co., at $500,000.

+Point Pleasant, W. Va.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a U. S. post office at Point Pleasant, W. Va., to HARMAN BROS., Williamsport, Pa., at $61,000.

Wheeling, W. Va.—The Sisters of the Good Shepherd propose to rebuild the Orphan's Home, which was recently destroyed by fire. The cost will be about $60,000.

Wheeling, W. Va.—W. A. Wilson & Sons Co. will construct a 7-story fireproof building at 1421 Main St.

+Spartanburg, S. C.—The contract has been awarded to J. J. KELLEN CO. for the construction of the Carlisle Memorial Hall at Wafford College. The cost will be about $50,000.

+Macon, Ga.—The contract has been awarded to the GRAY CONSTRUCTION CO., St. Louis, Mo., at $349,000, for constructing a hotel at Macon.

Florence, Ala.—Bids were received as follows on Oct. 31, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post office at Florence, Ala.: (a) limestone; (b) sandstone. A. Anderson & Sons Co., St. Louis, Mo., (a) $110,000. Algernon Blair, Montgomery, Ala., (a) $119,777; (b) $125,000. M. Yeager & Son, Danville, Ill., (a) $114,454; (b $116,524. Newport Contracting & Engineering Co., Newport News, Va., (a $117,461; (b $120,461. George W. Stiles Construction Co., Chicago, Ill., (a $113,448. King Lumber Co., Charlottesville, Va., (a- $124,400; (b) $129,500. George Beeking, Chattanooga, Tenn., (a) $104,518; (b) $108,700. Barnes Bros., Logansport, Ind., (a) $98,800; (b) $100.800. Bailey & Koerner, Louisville, Ky., (a) $124,279; (b) $126,367. James de Vault, Canton, Ohio, (a) $122,500; (b) $123,800. Rogers & Kaiser, Chicago, (a) $130,914; (b) $136,714.

+Birmingham, Ala.—Contract for the erection of the 100-room hotel, which William Hood, Birmingham, is to erect at Fourth Ave. and 22d St., has been let to H. A. STOCKMAR, and work on the building will start at once.

Mobile, Ala.—Plans have been completed for the construction of a lodge and office building at the corner of Government and Emanuel Sts. The Maple Camp, No. 5, Woodmen of World, is the owner. The cost will be about $100,000.

+Louisville, Ky.—The contract for the concrete piles and foundations of a building to be erected at Louisville, for the Kentucky Elevator Co., has been awarded to the RAYMOND CONCRETE PILE CO., New York, N. Y. Witherspool & Englar, are the Engrs.

Louisville, Ky.—A building permit has been granted to the Kentucky Distilleries & Warehouse Co. for the erection of a warehouse to be 215 × 482 ft. The cost will be $300,000.

Paducah, Ky.—The First Baptist Congregation has decided to construct a church building. The Rev. S. E. Tull is Pastor.

Chillicothe, Ohio.—J. F. Sheblessy is preparing plans for the construction of a parochial school for St. Mary's Roman Catholic Church.

+Kent, Ohio.—The contract has been awarded to ROBERT H. EVANS & CO., Columbus, at $121,167, for erecting the administration building and women's dormitory for the Kent State Normal School.

+Bellaire, Ohio.—The contract is reported to have been awarded to the KRATZ LUMBER CO., Lorain, at $54,669, for the erection of a school building in the Fourth Ward.

Cleveland, Ohio.—A motion picture and vaudeville theatre, seating about 1,000 persons, will be erected here. A site has been secured at East 105th St. and Cedar Ave. The cost will be about $65,000. Albert Koch is the owner.

Columbus, Ohio.—Bids will soon be received for the archaeological building which is to be erected by the Ohio State University.

The Smith Bros. Hardware Co. will construct an additional two stories to its building on Chestnut St. Plans have been completed by C. L. Inscho.

Tiffin, Ohio.—A new science hall will be constructed at Heidelburg University. The cost will be about $50,000.

Indianapolis, Ind.—The Globe Realty Co. will construct a 3-story reinforced concrete building at Michigan St. and Capitol Ave. The cost will be about $45,000.

+Indianapolis, Ind.—The contract has been awarded to the WILLIAM P. JUNGCLAUS CO. for the construction of a fireproof office and warehouse building for the Crane Co., at Market and Missouri Sts. The construction work calls for an expenditure of about $80,000, it is said, but other improvements will bring the cost up to about $250,000, exclusive of $75,000 paid for the site.

+Detroit, Mich.—John Scott & Co., 1603 Ford Bldg., has awarded the following contracts for the 5-story and basement office building, 78 × 60 ft., for the Public Lighting Co., F. T. Bowler, Secy., 40 Atwater St. Structural iron work let to H. B. LEWIS, 45 Joseph Campan Ave.; masonry to the A. J. SMITH CONSTRUCTION CO., 18 Campan Bldg.; plumbing to J. W. PARTLAN, 51 Park Pl.; carpentry to SCHMID-SISMAN CO., 385 Beaufait St. Cost, about $40,000.

+Grand Rapids, Mich.—C. B. Kelsey, Commercial Savings Bank, Grand Rapids, has awarded the general contract for the 3-story and basement building, 75 × 100 ft., to C. HOERTZ & SON, 189 W. Bridge St. Cost will be about $45,000.

Detroit, Mich.—Plans are being prepared by G. A. Mueller, Brutmeyer Bldg., Detroit, for the erection of a 2-story and basement office building. The Lowe Manufacturing Co., Detroit St., Cleveland, Ohio, is the owner. The cost will be about $30,000.

Plans are being prepared by B. A. Wetzel & Co., 404 Hammond Bldg., for the construction of a 6-story apartment house. James Dinare, 49 Ferry Ave., is the owner. The cost will be about $50,000.

+Detroit, Mich.—The contract for painting the proposed $80,000 building here, has been awarded to G. GRIESSEL, 410 Warren Ave. Plans were prepared by Varney & Winter, 58 Equity Bldg. Mary W. Candles is owner.

Detroit, Mich.—David Stott, Grand River and Warren Aves., will have plans prepared for a theatre, 98 × 110 ft., with a seating capacity of $1,800, and has leased building to Philip Gleichman, 71 Griswold St. The owner will purchase materials and sublet contracts. Cost, about $150,000.

+Harry C. Stevens, 502 Sun Bldg., has awarded the contract for the 3-story and basement market building for the Broadway Public Market Co., H. S. Warren & Co., Mgrs., 211 Moffat Bldg., to F. H. GODDARD, 516 Franklin St. The cost will be about $200,000.

Chicago, Ill.—An apartment house, to cost $100,000, will be erected at Midway Plaisance and Jefferson Ave. by Louise E. Harroun. The cost will be about $100,000.

Chicago, Ill.—The appropriation of $100,000 for the construction of a Baptist hospital has been recommended in the report of the committee on charitable institutions to the Illinois Baptists' Association at Elgin.

Chicago, Ill.—A 33-apartment building will be erected by John A. Bickford at the northwest corner of Arnold Ave. and Howard St. The cost will be about $100,000.

Edwardsville, Ill.—Bids will be received, until Nov. 6 by J. G. Delicate Secy. Bd. of Edu. School, Dist. 77. for erecting a brick school. Plans by Pfeiffenberger & Son, Archs., East St. Louis.

Urbana, Ill.—Bids will be received by the Board of Trustees, University of Illinois until Nov. 8, for constructing a School of Commerce building.

Milwaukee, Wis.—The Eastman Co., representing the First National Bank, has petitioned the common council for permission to erect a 16-story bank building at East Water and Mason Sts. The building is to be 215 ft. high.

Wauwatosa, Wis.—The County Board has voted to reject all bids for building the dormitory and superintendent's home of the new County School of Agriculture at Wauwatosa. Plans will be changed and new bids taken shortly. A. C. Eschweiler, 729 Goldsmith Bldg., is Superv. Arch. The lowest bid received was $77,936.

Milwaukee, Wis.—Bids will be received by the Board of School Directors, until Nov. 2, for constructing the Milwaukee Public School of Trades for Boys. Frank M. Harbach is Secy.

Milwaukee, Wis.—A 99-year lease has been secured on the northeast corner of Grand Ave. and Third St. by Morris Miller, Max Routt and Martin Tullgren for the purpose of erecting a 14-story structure. The operation involves an expenditure of nearly $2,000,000.

The proposed municipal and isolation hospital at Mitchell St. and 18th Ave., will be two stories high, of brick and concrete construction and will cost about $65,070.

Minneapolis, Minn.—Bids were received as follows on Oct. 31, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for U. S. post office at Minneapolis, Minn.: (a) limestone; (b) sandstone; (c) granite. J. H. Wiese, South Omaha, Neb., (a) $510,000; (b) no bid; (c) $612,000. Harmon Bros., Williamsport, Pa., (a) $526,871; (b) $533,500; (c) $632,500. Pike & Sooke, Minneapolis, Minn., (a) $496,524; (c) $605,632. H. N. Leighton, Minneapolic, Minn., (a) $447,787; (b) $454,850 (c) $565,537. Dieter & Wenzel Construction Co., Wichita, Kan., (a) $545,709; (b) $553.709; (c) $675,509; Hiram Lloyd Building & Construction Co., St. Louis, Mo., (a) $576,777; (b) $583,777; (c) $686,777. Conners Bros. Co., Lowell, Mass., a() $519,000; (b) no bid; (c) $618,000; Northwestern Construction Co., Wahpeton, N. Dak., (a) $545,000; (b) $559,000; (c) $671,000; J. H. Miller, Baltimore, Md., (a) $544,447; (b) $554,447; (c) $629,447. J. E. & A. L. Pennock, Philadelphia, Pa., (a) $498,447; (b) $508,000; (c) $608,447; Sound Construction & Engineering Co., Seattle, Wash., (a) $541,925; (b) $575,154; (c) $639,290. William H. Maxwell, Great Falls, Mont., (a) $498,800; (c) $601,800. P. M. Hennessey Construction Co., St. Paul, Minn., (a) $497,940; (c) $628,940; John Gill & Sons, Cleveland, Ohio, (a) $555,000; (b) $650,000; (c) $665,000. Charles McCaul Co., Philadelphia, Pa., (a) $499,854; (b) $510,854; (c) $603,054.

St. Paul, Minn.—The State Board of Control opened bids Oct. 26, for the construction of new wings, roof house, retaining wall and auditorium, for the main engineering building at the State University. W. H. Grady & Co., 367 Prior Ave., St. Paul, Minn., were low bidders, at $54,000. The Board decided to reject all bids. C. H. Johnston, St. Paul, is State Arch.

Hibbing, Minn.—It has been decided by the School Board to build an addition to the local high school. The cost will be about $125,000.

St. Paul, Minn.—The State Board of Control received bids on Oct. 20, for the construction of a group of buildings at the State School for Girls at Sauk Center. An administration building, hospital, superintendent's cottage and other buildings were included. The lowest bid was that of John Lauritzen, Fergus Falls, at $60,000 for general contract only. All bids were rejected. C. H. Johnston, 715 Capital Bk. Bldg., St Paul, is Arch.

✚The contract for the construction of a clubhouse for St. Paul Lodge of Elks 59, James Healy, Exalted Ruler, has been awarded to HOY & ELZY CO., 319 Metropolitan Bldg., St. Paul on a percentage basis. Ellerbe & Round, 692 Endicott Bldg., St. Paul, are the Archs. The building will cost about $40,000.

✚The Fidelity Storage Warehouse Co., has awarded the contract for the construction of the superstructure of its 7-story fireproof warehouse at the foot of Franklin St. to the GEO. J. GRANT CONST. CO., 709 N. Y. Life Bldg., St. Paul. A. H. Wheeler, 416 Globe Bldg., St. Paul, is the Arch. The cost will be about $60,000.

Bids will be received by the Northern Pacific Ry. Co., until Nov. 10, for the construction of two modern passenger stations at Centralia, Wash., and Everett, Wash. W. L. Darling, St. Paul, is Ch. Engr.

St. Cloud, Minn.—Bids will be received by the State Board of Control until Nov. 6, for constructing a model school building at the State Normal School. Plans have been prepared by Clarence H. Johnston, Arch., 115 Capital Bank Bldg., St. Paul.

Atchison, Kan.—A building will be erected at St. Benedict's College. It will be one of a $1,000,000 group to be constructed at the college.

✚**Houston, Tex.**—The contract has been awarded to JAMES STEWART & CO., for the residential hall to be erected at the Rice Institute. The building will be 200 × 40 ft. three stories high, and of fireproof construction. The cost will be about $202,000.

San Antonio, Tex.—A school building will be constructed by the Board of Education on Prospect Hill in San Antonio. The cost will be about $45,000.

Salt Lake City, Utah.—Plans are being prepared for the construction of the main building which is to be erected at the University of Utah and for which there is an appropriation of $300,000.

✚**Pasco, Wash.**—The Northern Pacific Ry. Co. has awarded the contract for the construction of its terminals here to the KELLY BROS., Tacoma, Wash. The buildings will consist of shops, roundhouses and yards. W. L. Darling, St. Paul, is Ch. Engr. Cost, $70,000.

***Albany, Ore.**—See "Proposals."

✚**Martinez, Cal.**—The contract has been awarded to GEORGE W. BOXTON, San Francisco, for the construction of the Concord Inn. The cost will be about $55,000.

Anaheim, Cal.—A syndicate of local men contemplate the erection of a 3-story hotel and business building, 120 × 145 ft., to cost $70,000. A site has not yet been selected.

Fresno, Cal.—Plans are being prepared by B. G. McDougall, San Francisco, for a modern 3-story hotel building, to be built on the site of the Ogle House on H St., between Mariposa and Tulare Sts., by the Blasingame estate. It will cost $70,000.

Long Beach, Cal.—Plans have been completed by H. S. Fredericskon for the erection of a 3-story and basement store at Second and Locust Ave. The cost will be about $40,000.

Los Angeles, Cal.—John C. Austin and W. C. Pennell, associated Archs., Callender Bldg., are preparing plans for a 3-story and basement brick apartment house, 50 × 125 ft., to be erected on Clower St., between Tenth and Eleventh Sts., for Mrs. A. R. Mackie. It will contain 36 apartments of two and three rooms each and will have amusement room, storage room, laundry and furnace rooms in the basement.

✚The contract has been awarded to the BAKER IRON WORKS at $65,000 for the structural steel work in the 4-story and basement Class A building, to be erected at First St. and Broadway, for the Times-Mirror Co. CARL LEONARST has the general contract. John P. Krempel and Walter E. Erkes, 415 Henne Bldg., are the Archs.

Col. J. B. Lankershim and J. W. Mitchell have purchased over half a mile of shore frontage at the base of Santa Monica palisades and will erect, it is reported, a fireproof tourist hotel.

Ferdinand Parmentier has completed plans for a 3-story and basement house, to be erected at 550 South Flower St. It will be 50 × 155 ft., and contain 72 rooms. Cost $60,500.

Edelman & Barnett, Archs., Blanchard Bldg., are completing plans and will be ready for bids this week on the general contract of the 11-story, basement and sub-basement, Class A office building, to be erected at the northwest corner of Fourth and Hill Sts. The estimated cost is $450,000.

Elmer Grey, Arch., 811-12 Wright and Callender Bldg., has completed preliminary sketches for the new church edifice to be erected at the junction of Alvarado St. and Alvarado Terrace, for the First Church of Christ, Scientist.

✚The contract has been awarded to the RICHARD-NEUSTADT CONSTRUCTION CO., 705 Wright and Callender Bldg., at $115,000, for the erection of the building to be erected at the southeast corner of Seventh and Los Angeles Sts., for M. J. Connell. It will be a 5-story and basement reinforced concrete structure. Kahn system of construction will be used. A. W. Angek is the Arch., and Geo. W. Harding, 635 Citizens National Bank Bldg., is the Structural Engr.

At a meeting of the building committee of the Board of Education, held Oct. 19, Hunt & Burns, Archs., 701 Laughlin Bldg., were commissioned to prepare plans and specifications for the 8-room school building to be erected at Commonwealth Ave. and Third St. Construction to be either brick or concrete.

A resolution was also passed instructing H. E. Brett, Engr., to confer with Parkinson & Bergstrom, Archs., regarding the addition to be built to the power plant at the manual arts high school. This addition is part of the administration building which was omitted when the school was built last year. The architects were instructed to make a few changes in the plans, and bids for the construction of the building will be called for in about two weeks. Cost will be about $100,000.

M. S. Yaeger & Co., 307 L. A. Trust Bldg., have prepared plans and will build a 5-story and basement, Class

M. S. Yeager & Co., 307 L. A. Trust Bldg., have prepared plans and will build a 5-story and basement Class B apartment building on the west side of Westlake Ave., for James M. Kerr, of 1840 Lundy St., Pasadena. Cost, about $75,000.

Oakland, Cal.—Plans have been commenced for the erection of a home for the nurses of the Merritt Hospital. The home was the gift of Mrs. R. S. Farrelly. Cost, about $50,000.

Sanger, Cal.—Bonds to the amount of $60,000 have been voted for the erection of a high school building.

San Francisco, Cal.—Willis Polk & Co., Merchants' Exchange, have about completed the working plans for the Regents Hotel building which is to be erected on Sutter St., between Kearny and Montgomery Sts. It is probable that contracts for the construction will be let before the end of this month. The building will cost about $500,000.

L. B. Dutton is preparing plans for a $110,000 hotel apartment building at Bush St. and Grant Ave., for Kessler & Chapman.

✚The contract was awarded to J. ROLAND, 550 Montgomery St., at $55,000 for the construction of a 4-story and basement reinforced concrete hotel on Sacramento St., for Rev. John Hemphill, of Los Gatos.

✚The contract was awarded to J. W. SMITH & SON, at $45,000, for the construction of a 3-story and basement frame addition to Our Ladies Home at Fruitvale, Cal.

San Francisco, Cal.—O'Brien & Werner, Foxcroft Bldg., have completed plans for a 5-story Class A labor temple to be erected at 16th and Capp Sts., at a cost of $100,000, for the San Francisco Labor Temple Association.

F. C. Mendel has taken out a permit for the construction of a 5-story brick apartment building at Ellis and Jones Sts., at $80,000.

✚Lewis P. Hobart, Crocker Bldg., has awarded the contract to FARRELL & REED, Gunst Bldg., for the construction of the brick and terra cotta stone and concrete work for St. Luke's Hospital at Army, Valencia, Duncan and San Jose Ave. The cost is about $55,500.

✚Albert Pissis, Flood Bldg., has awarded the contract to FRANK M. GARDEN CO., 251 Kearny St., at $91,050 for the construction of a 3-story building at Webster and Sacramento Sts., for Stanford University.

Susanville, Cal.—Local capitalists are preparing to erect a 3-story hotel on Main and Gay Sts. to cost $100,000. Construction will start as soon as stock is sold and other arrangements made.

Santa Rosa, Cal.—The Santa Rosa Elks Lodge has recently indorsed the project of the Sisters of Providence to erect a $75,000 hospital at Santa Rosa, for which the city will present the site.

Willows, Cal.—Plans have been completed by Architect Russel of San Francisco for the proposed hotel at Sycamore and Butte Sts. Mrs. Catherine Muller is owner. The cost will be about $75,000.

✚**Yreka, Cal.**—The contract for rebuilding and improving the Sishigoo County Bank building has been awarded to the BANK EQUIPMENT CO., San Francisco.

Toronto, Ont.—The Dominion Board of Railway Commissioners has ordered the construction of a new terminal station for the three railways entering Toronto, according to plans prepared by the Board of Trade. The plan provides for ten tracks for local trains and six tracks for through trains.

Ottawa, Ont.—According to David McNicoll, Vice-Pres. and Gen. Mgr. of the Canadian Pacific Ry., a new depot will be built at Ottawa, Ont., on the small government park between Canal St. and the Rideau Canal, just opposite the new Grand Trunk station. Mr. McNicoll stated that the Canadian Northern Ry. will join with the Canadian Pacific Ry. in the undertaking.

WATER SUPPLY—IRRIGATION.

(*✚Denotes a contract awarded.*)

Easthampton, Mass.—The Hampton Co. is receiving bids for the construction of a 100,000-gallon steel tank on a tower 100 ft. high.

Fitchburg, Mass.—The city is considering an increase in the capacity of its reservoirs.

Quincy, Mass.—The City Council has voted to appropriate $10,000 for extensions to the water-works system. E. C. Sargent is City Engr.

✚**Plainville, Conn.**—A contract has been awarded to the SPERRY ENGINEERING CO., New Haven, Conn., by the Water Co. for the construction of a concrete pumping station near Hamlin's Pond.

Lyons, N. Y.—About $40,000 will be spent by the Rochester, Syracuse & Eastern R. R. Co. in changing the location of the pumping station of the power-house here. Estimates are now being prepared.

***New York, N. Y.**—Bids were opened on Oct. 31 by the Board of Water Supply for Contract 75, for the construction of the Bay Ridge Conduit, a portion of the city pipe lines of the Catskill Aqueduct, City Aqueduct Dept., extending from the junction of 36th St. and Fifth Ave., Boro. Brooklyn, in a generally southwesterly direction, along Fifth Ave., 64th St., Fourth Ave., 67th St., and Second Ave. to 79th St., and through 79th St. to the Shore Road. The work will include furnishing and laying about 16,400 ft. of 48-in. c. i. pipe, 36 ft. of 36-in. pipe, valves and other appurtenances for one year. The unofficial totals follow: F. V. Smith Construction Co., Lafayette Ave., and Westchester Creek, New York, $237,000; Murphy Bros., $243,764; Joseph Burns, $247,602; Seaboard Construction Co., $255,686; McCauley Manton Co., $262,603; Cranford Co., $264,897; Degnan Construction Co., $265,369; M. E. Fox, $266,372; Rodgers & Haggerty, $269,483; Borough Development Co., $270,643; United Engineering & Contracting Co., $278,809.

✚**Niagara Falls, N. Y.**—The DRAVO-DOYLE CO., Lewis Bldg., Pittsburgh, Pa., has been awarded the contract by the American Pipe & Construction Co. of Philadelphia, general contractors, for the filter plant to be built here for the Western New York Water Co., for pumps and motors. The contract for the sedimentation basins and standpipe has been let to FARRAR & TREFTS, 60 Perry St., Buffalo, N. Y.

Waterford, N. Y.—The village is considering the construction of a filter plant. Estimated cost, [illegible],000.

***Fort Hancock, N. J.**—Bids will be received until noon, Nov. 17, by the Quartermaster, U. S. A., Fort Hancock, for piping deep well for air lift, etc.

Baltimore, Md.—The Fire Board has asked for an appropriation of $100,000 for the completion of the high-pressure pipe line. B. T. Fendall is City Engr.

***Cumberland, Md.**—The date for receiving bids for the water supply system for the city has been changed from Nov. 15 until noon, Dec. 1. Noted on Oct. 19 and 26.

✚**Fort Washington, Md.**—The contract has been awarded to the DES MOINES BRIDGE & IRON CO., Curry Bldg., Pittsburgh, Pa., for the construction of a 66,000-gallon water tank.

Norfolk, Va.—The Water Engineer has recommended the construction of a pipe line, with necessary pumping facilities. Estimated cost, about $40,000.

Northfork, W. Va.—We are officially advised that the contract for two 50,000-gallon reinforced-concrete water tanks has been awarded by the city to WILLIAM ROSSI & CO., at $6,955. Bids were opened on Oct. 23.

✚**Charlotte, N. C.**—Contracts have been awarded as follows by the Board of Water Commissioners: For the pipe line to the river, to ENSMINGER BROS. of Columbus, Ohio, at $[illegible]; boilers, to CASEY-HODGES CO. of Chattanooga, Tenn., at $4,050; two pumps, to WHITTED & WHITE of Charlotte, at $3,767. Gilbert C. White of Durham, N. C., is Engr.

Baxley, Ga.—The citizens on Oct. 16 voted in favor of issuing bonds for enlarging the water-works system. Noted on Oct. 19.

Piedmont, Ala.—The city has voted to issue $25,000 of bonds for enlarging the water-works and for the construction of an electric light plant.

✚**Lexington, Miss.**—We are officially advised that contracts for water-works and a system of sewers here have been awarded as follows, by the city: For pumping station, receiving basin and laying water mains, to HAMILTON JOHNSON of Jackson, Miss.; steel tower and tank, to the MEMPHIS STEEL CONSTRUCTION CO. of Memphis, Tenn.; fire-hydrants to R. D. WOOD & CO., 400 Chestnut St., Philadelphia, Pa.; valves, to the FAIRBANKS CO. of New Orleans, La.; sewer system, to TONKOWA CONSTRUCTION CO. of Tonkowa, Okla.; c. i. pipe, to the AMERICAN C. I. PIPE CO. of Birmingham, Ala.; manhole castings, to the COLUMBIAN IRON WORKS of Chattanooga, Tenn. Walter G. Kirkpatrick is Engr., Jackson, Miss.

Jellico, Tenn.—The date for receiving bids for any part or all of the machinery and materials, and separately for the construction of a gravity water-works system here, has been extended from Nov. 1 to Nov. 8. The work includes about 12½ miles of 3 to 10-in. mains, with hydrants and valves, and a 500,000-gallon reinforced-concrete reservoir.

Johnson City, Tenn.—J. C. Cook, Atlanta, Ga., has been retained to revise plans and specifications for the installation of water-works here.

Lexington, Ky.—Plans are being prepared by J. M. Caird, of Troy, N. Y., for the construction of a reinforced concrete coagulating basin in connection with the filter plant. Estimated cost, about $50,000.

Cleveland, Ohio.—R. W. Pratt, Consult. Engr., Columbus, Ohio, has been engaged by the city to prepare a preliminary report on the purification of the water supply.

Lorain, Ohio.—Bids will be received until noon, Nov. 3, by the Director of Public Service, for the following: About 90 tons of 6-in. Standard c. i. pipe, bell and spigot ends; 60 tons of 12-in. Standard c. i. pipe, bell and spigot ends. All the above to be delivered f. o. b. cars at Lorain. Bidders, must specify earliest dates at which material will be delivered. Material so delivered will be subject to inspection and acceptance of the Director. L. B. Johnston is Clk.

Broad Ripple, Ind.—The Indianapolis Water Co., of Indianapolis, has secured a franchise to supply Broad Ripple with water, necessitating the construction of a separate pumping station.

✚**Columbus, Ind.**—The City Council on Oct. 17 awarded the contract for sinking an 8-in. test well and a number of observation wells to CHARLES KRAUSE & SON, of Indianapolis.

✚**Muskegon, Mich.**—We are officially advised that the city has awarded the following contracts for 7,000 ft. of 48-in. c. i. intake pipe, intake well at shore of Lake Michigan, and water-mains for distributing systems, including valves, hydrants and pipe connections with existing systems: To BURKE, SMITH, NELSON & CLUTCHY for labor on intake, etc.; DIXON & CAMPBELL, labor on distribution sys-

tem, etc.; LYNCHBURG FOUNDRY CO. Lynchburg, Va., special castings; WISELOGEL & CO., bridge, etc.; LUDLOW VALVE CO., hydrants only; KENNEDY VALVE MFG. CO., Elmira, N. Y., valves only. All bids on intake pipe have been rejected, and new bids will be received until Nov. 6.

Saint Clair Heights, Mich.—The citizens have voted to issue $12,000 bonds for water main extensions.

Chicago, Ill.—Bids will be received until Nov. 4 by L. E. McGann, Comr. Pub. Wks., for furnishing 100 tons of special castings.

+The contract has been awarded to the U. S. CAST IRON PIPE & FOUNDRY CO., Rookery Bldg., Chicago, for furnishing and delivering 500 tons of 8-in. c.-i. pipe, at $22.75 per ton, f. o. b. pipeyards, Chicago. Bids were opened by L. E. McGann, Comr. Pub. Wks., on Oct. 18.

Springfield, Ill.—Bids will be received until Nov. 20 by the city for constructing a 2-story pumping station building, 123 × 149 ft., including a pump pit, 50 × 90 ft., and 20 ft. deep.

White Hall, Ill.—Bids will be received until Nov. 7 by Joseph Lyman, City Clk., for furnishing and laying water mains.

Independence, Wis.—Bids will be received until 2 p. m., Nov. 10, by Jacob Jackson, Village Clk., for the construction of the following: Four driven wells with header about 60 ft. deep through sand, having screens packed in gravel inside 12-in. temporary casing; about 1,200 ft. of 8-in. c.-i. pipe in trench 7 to 16 ft. deep in sandy soil. The bids are to include all material and labor. Plans and specifications are on file at Independence, and at the office of Engineering News, New York. W. E. Miller is Engr., Madison, Wis.

Madison, Wis.—The City Council has voted to issue $20,000 of bonds for extensions to the water system.

Manitowoc, Wis.—The City Council has voted to issue $40,000 of bonds for improvements to the water and light plant.

***South Wayne, Wis.**—Bids will be received by the Village Board until 7.30 p. m., Nov. 15, for furnishing all material and labor necessary for the construction of a complete system of water-works, including deep well, power-house, pumping plant, distribution system and tower and tank. Estimated cost, $7,500. B. W. Hicks is Engr., Vulcan, Mich.

+**Boone, Iowa.**—The City Council has awarded the contract to C. W. ENNIS of Toledo, Iowa, for the construction of two pumping station buildings, at $4.759 and $5,090 respectively.

Dumont, Iowa.—The citizens have voted to issue $7,000 of bonds for the installation of water-works.

+**Mount Vernon, Iowa.**—We are officially advised that the contract was awarded by the city on Oct. 25 to THOMAS CAREY & SONS, of Clinton, Iowa, for the construction of a reinforced-concrete storage reservoir.

Morton, Minn.—The U. S. Board of Engineers for Rivers and Harbors, A. H. Weber, Asst. Engr. Secy., St. Paul, Minn., are considering the construction of a reservoir at Lac Qui Parle, Minn., to cost about $1,375,000, and provide a navigable channel on Minnesota River from its mouth to Morton.

+**Minneapolis, Minn.**—The contract for equipment for the filtration plant has been awarded to the PITTSBURG FILTER MFG. CO., Farmers' Bank Bldg., Pittsburgh, Pa., by the city.

Preston, Minn.—We are officially advised that the city has decided not to extend the water mains this year. Noted on Oct. 19.

+**Hiawatha, Kan.**—We are officially advised that bids were received as follows on Oct. 25 by the city for water-works extension: G. E. Smith, $23,584; Brooks & Sons, $21,000; Jones Bros., $22,861; Cook Construction Co., $25,775; Thogmorton & Gardiner, $23,000; Katz Construction Co., $21,348; DES MOINES BRIDGE & IRON CO., Des Moines, Iowa, $19,217 (awarded contract); Intermountain Construction Co., $20,500; Municipal Construction Co., $20,900; A. J. Foster, $25,376.

Valley Falls, Kan.—Bids will be received by the city until Nov. 14, for furnishing the material and constructing water-works improvements. Burns & McDonnell are Consult. Engrs., Kansas City, Mo. Noted on Oct. 19.

+**Decatur, Neb.**—The contract has been awarded by the city to the LANA CONSTRUCTION CO. of Harlan, Iowa, for the construction of water-works, at $9,480. Bids were opened on Oct. 17.

Louisville, Neb.—The city will issue $15,000 of bonds for water-works.

+**Aberdeen, S. Dak.**—The contract for excavating for the new city reservoir has been awarded to H. C. HANSON at 15 cts. per cu. yd. Other bidders were: Schile Bros., 19 cts.; Kruger Bros., 20 cts.; Burgard Bros., 26 cts. The reservoir will be 80 × 100 ft., with a capacity of 1,200,000 gallons.

Rapid City, S. Dak.—Bids will be received until Nov. 6 by A. K. Thomas, City Eudr., for laying about 5½ miles of 14-in. wooden water pipe.

Warrensburg, Mo.—We are officially advised that Burns & McDonnell, Consult. Engrs., Scarritt Bldg., Kansas City, Mo., are making for the city an appraisement of the value of the water plant and an estimate of cost of a new plant.

Harrison, Ark.—The City Council has retained the Shelton Engineering Co. of Miami, Okla., to prepare plans and specifications for water-works.

Balmorhea, Tex.—The Balmorhea-Toyah Valley Irrigation Company is arranging to construct a system of irrigation in the Toyah Valley to cost about $300,000. The plans include the erection of a dam which will cost about $200,000 and the construction of a large system of canals and laterals. The financial agents of the company are Cobe McKenna & Co. of Chicago. Steps have been taken to form a water users association taking in all the land owners that are to be benefited by the reservoir and irrigation system. The lands are to be bonded for the payment of the cost of constructing the dam and equipping the system.

Cotulla, Tex.—J. R. Black of Cotulla will construct a dam across the Nueces River to form a storage reservoir for irrigating 12,000 acres of land. The estimated cost is about $25,000. In connection with this project there will be installed a hydroelectric plant and cotton mill. The power generated by the electric plant will be transmitted to Cotulla and other towns in the section.

Harlingen, Tex.—Bids will be received until Nov. 10 by the city for the construction complete of a water-works and electric light system. Bidders will be allowed to make complete plans and designs and bid on complete system. No other power than gas will be considered. Construction will require power plant, buildings, piping or mains, electric installation, water tower, etc. A. W. Cunningham is Mayor.

Killeen, Tex.—The citizens have voted $16,000 of bonds for the installation of a water-works system.

Kenedy, Tex.—The City Commission is considering an issue of $25,000 of bonds for installing water-works and sewer systems here.

Lott, Tex.—The city has decided to construct a water-works system. Estimated cost, $14,000.

Mount Vernon, Tex.—M. G. O'Neil, C. E., of Dallas, Tex., will make a survey and estimate of cost of constructing a new water-works system for Mount Vernon.

Duston, Okla.—Bids will be received after Nov. 1 by the city for the construction of water-works. Estimated cost, $24,000. E. W. Gauntt is Engr., Fort Smith, Ark.

Kingfisher, Okla.—We are officially advised that the Benham Engineering Co., American National Bank Bldg., Oklahoma City, Okla., is preparing plans and specifications for the installation of water-works and electric plant extensions here. Bonds for $30,000 have been voted.

Magnum, Okla.—We are officially advised that the city will install two 8-in. siphon lines in conjunction with its present water-works system. The siphons will drain wells, now being constructed. The work will require the laying of about 2,000 lin. ft. of 8-in. c. i. watermain. The Benham Engineering Co., American National Bank Bldg., Oklahoma City, Okla., is in charge of the engineering work.

+**Muldrow, Okla.**—The contract has been awarded to F. R. STONE, of Lima, Ohio, for the construction of the pumping station and light plant here, at $26,760.

Montrose, Colo.—Bids will be received until 5 p. m., Nov. 11, by the U. S. Reclamation Service, Montrose, for furnishing continuous woodstave pipe for a 60-in. siphon, and necessary labor and materials to erect same. C. T. Pease is Project Engr.

Okmulgee, Okla.—The city is considering an issue of $6,000 of bonds for water-works improvements.

Oak Creek, Colo.—The citizens on Oct. 17 voted to grant a franchise to John Sharpe, of Cripple Creek, Colo., for the installation of a water-works system. Estimated cost, $25,000.

+**South Canon, Colo.**—The City Council has awarded to J. R. GORDON of Pueblo, Colo., the contract for the installation of the mains and pipe lines for the new water system on the South Side at $22,050. There are approximately four miles of water mains to be laid the largest of which will be 8 ins. in diameter.

Fallon, Nev.—Bids will be received until 2 p. m., Dec. 6, by the U. S. Reclamation Service of Sunnyside, for of electrical energy generated at the Lahontan Dam, Truckee-Carson Project, Nevada.

Boise, Idaho.—See item under Miscellaneous Contracts.—Wire, Boise, Idaho.

+**Asotin, Wash.**—The contract has been awarded to W. H. MITCHELL, of Seattle, Wash., for the construction of the water system here, at $23.480.

Mabton, Wash.—The lowest bidders in Oct. 16 for the excavation and backfilling of trenches, and constructing wood-stave pipe near here for the U. S. Reclamation Service, Sunnyside, Wash., were: Schedule 1, A. L. Smith, of North Yakima, Wash., $4,845; Schedule 2, Midland Engineering Co., of North Yakima, $10,055.

Sunnyside, Wash.—The lowest bids opened on Oct. 16 by the U. S. Reclamation Service, Fallon, for the lease constructing three concrete drops and excavating about 80,000 cu. yds. on Snipes' Mountain lateral near here, were: Schedule 1, Mathieson & Webber, Sunnyside, $16,100; Schedule 2, Midland Engineering Co., North Yakima, $2,025.

+**Tacoma, Wash.**—The Commissioner of Light and Water on Oct. 13 awarded the contract for laying 6 and 8-in. water mains in District No. 584 to G. CAPPA & CO., at $8.055. Other bidders were: Keasal Construction Co., $9,439; Stoll & Holst, $9,448; Galluci & De Rose, $9,085.

Twisp, Wash.—The city is considering the installation of a water-works system. Estimated cost, $12,000.

Baker, Ore.—The Central Oregon Power & Irrigation Co., it is reported, has been incorporated by W. A. Pope and S. S. Start, of Baker, for the purpose of irrigating large tracts of land in Harney County, Ore., by pumping water from the Malheur Lake.

Gresham, Ore.—We are officially advised that bids were received as follows on Oct. 23 for constructing the water-works distributing system here: Jacobsen-Bade Co., Portland, Ore., $15,057. James Kennedy Construction Co., Hillsboro, Ore., $15,852. J. W. Morris, Portland, $17,997. Keating & McLean, Portland, $18,702. The itemized Bid of the Jacobsen-Bade Co. follows: Excavating and backfilling, per cu. yd., 25 cts.; embankment, per cu. yd., 40 cts.; furnishing and laying c. i. pipe per lin. ft., 4-in., 52 cts.; 6-in., 80 cts.; 8-in., $1.12; 10-in., $1.43; 12-in., $2.15; furnishing and laying 2-in. galvanized pipe, per lin. ft., 16 cts.; furnishing and laying 4-in. drain tile, per lin. ft., 6 cts.; special castings, per lb., 5 cts.; hydrants, each, $37; valves, each, 2-in., $5; 4-in., $10; 6-in., $15; 8-in., $15; 10-in., $25; valve boxes, each, 5; galvanized T's, 2 × 2 × ¾ with plugs, each, 50 cts. Louis C. Kelsey is Engr., Portland.

Hermiston, Ore.—Bids were received on Oct. 10 as follows by the U. S. Reclamation Service, Hermiston, for machine-banded woodstave pipe: Pacific Tank & Pipe Co., Portland, Ore., $4,125. Washington Pipe & Foundry Co., Tacoma, Wash., $4,551. Portland Wood Pipe Co., Portland, $4,739. Redwood Mfg. Co., San Francisco, Cal., for pipe manufactured from redwood, $6.275. The bids are for Douglas fir unless otherwise stated.

Klamath Falls, Ore.—The U. S. Reclamation Service will probably spend about $200,000 in 1912 in Klamath County for work in connection with the Klamath Project, including the construction of a canal for irrigating lands in Poe Valley, and a strip of land along the east side of Lost River. W. W. Patch, Klamath Falls, is Project Engr.

Portland, Ore.—D. D. Clarke, Ch. Engr. Water Bd. has submitted plans for reinforcing high and low pressure mains in the South Side District. Several years will be required to complete the work. Estimated cost, $1,000,000.

The Water Board has ordered the construction of a service main from Division St., South, to tap the Sellwood District. Seven and one-half miles of territory will be covered by the system, including most of the territory lying south of Division St. and east of the Willamette River. Estimated cost, $129,000.

Bids will be received by the Water Board until 4 p. m., Nov. 14, for furnishing and delivering f. o. b. cars Portland, the following: Three 24 × 6-in. sleeves and valves; five 20 × 6-in. sleeves and valves; and ten 6 × 6-in. sleeves and valves, to be used for tapping water mains under pressure. Delivery to be made within 60 days after date of contract. Specifications and form of proposal can be obtained at the office of D. D. Clarke, Ch. Engr. Bd.

+**Dorris, Cal.**—The Town Trustees have awarded the contract to MOORE BROS. for the construction of the water system at $12,000. Noted on Sept. 28.

Fresno, Cal.—The Fresno Canal & Irrigation Co. will extend the Enterprise Canal, which taps Kings River, nine miles, at a cost of $60,000 for the purpose of irrigating a 6000-acre tract eight miles north of Fresno. The complete irrigation system for watering the tract will cost about $125,000.

Los Angeles, Cal.—The Board of Public Service Commission will receive bids until 2 p. m., Nov. 14, for furnishing ten sluice gates. James P. Vroman is Secy.

Turlock, Cal.—Bids will be received until 2 p. m., Nov. 20, by the Turlock Irrigation District, Anna Sorensen, Secy., Turlock, for the construction of about 3¾ miles of canal, known as part of Lateral No. 2¼.

The city on Oct. 16 voted to issue $25 000 of bonds for extensions to the water and sewer systems. George E. Steele, of Turlock, is Engr.

+**Burnaby, B. C.**—The contract has been awarded to A. G. LANGLEY & CO., 319 Pender St., West, Vancouver, B. C., by Cleveland & Cameron, Winch Bldg., Vancouver, B. C., for the erection of three 60,000-gallon water tanks for Burnaby at $17,425. Bids were opened on Oct. 2.

+**Santa Monica, Cal.**—The contract has been awarded to the WILLIAM GRAVER TANK WORKS, 217 La Salle St., Chicago, Ill., H. H. Clark, local agent, Security Bldg., Los Angeles, Cal., for the installation of two water softeners and purifiers at the National Soldiers' Home here, at $6,000.

+**Montreal, Que.**—The Board of City Commissioners has awarded the contract for the construction of prefilters, filtered water reservoir and appurtenances, to J. H. McGUIGAN of Toronto, Ont., at $485,000. The work includes (a) prefilters and appurtenances, filtered water reservoir, substructures of gate-houses, conduits and connections with the existing aqueduct and suction well, pipe lines, etc., complete; (b) additional earthwork; (c) additional concrete. Bids were opened on Oct. 3. Noted on Oct. 12.

Neepawa, Man.—Bids will be received until Dec. 15 by J. W. Bradley, Secy.-Treas. for the following work: Contract A, all labor and certain materials necessary for laying water pipes and sewers; Contract B, all labor and materials necessary for the construction of pump house and filter room and for bricking in boiler room; Contract C, (a) furnishing materials and labor for and erecting steel water tower; (b) furnshing materials and labor for and constructing concrete foundation for water tower; (c) furnishing material and labor for and constructing frame housing for water tower; Contract D, furnishing c.-i. water pipes and special castings; Contract E, furnishing gate valves, fire hydrants, etc.; Contract F, furnishing and erecting mechanical filters; Contract G, furnishing and erecting pumping machinery; Contract H, furnishing materials and labor for dam, intake and reservoir; Contract M, furnishing wooden stave pipes for conduit; Contract S, furnishing the sewer pipes and junctions; Contract W, furnishing materials and labor for laying wooden stave conduits; Contract X, furnishing materials and labor for constructing sewage disposal works. Plans and specifications are on file at the Town Hall and at the offices of Chipman & Power, Engrs., Mail Bldg., Toronto, Ont.

Prince Rupert, B. C.—Bids will be received by E. A. Woods, City Clk., until Nov. 20 for 1,800 tons of c.-i. water pipe, 38 tons of special castings and a quantity of gate valves. M. Davis is City Engr.

SEWERAGE.

*(*Denotes that this work is advertised in Engineering News.)*

+**Boston, Mass.**—The contract for the construction of sewers and surface drains in St. James Ave. and Providence St., City Proper, has been awarded to A. M. CUSACK at $26,541. Other bids were: Wm. L. Dolan, $28,319; Coleman Bros., $30,463; P. McGovern, $32,084; J. D. Kelly, $34,508; John McCourt & Co., $35,958. Louis K. Rourke is Comr. of Pub. Wks.

+**Buzzards Bay, Mass.**—We are officially advised that bids for laying a 60-in. c. i. pipe outfall in Buzzards Bay were received Oct. 24, as follows: PATRICK MCGOVERN, Boston, Mass., 26,000 cu. yds. dredging, 55 cts. per cu. yd., laying 3,288 lin. ft. of pipe, $16 per ft.; laying outlet, lump sum, $68,908; total, $68,908 (awarded contract). T. A. Scott Co., New London, Conn., 50 cts., $16, $3,500, $69,108; Hiram W. Phillips, Quincy, Mass., 55 cts., $16, $3,400, $70,308; Frederick Wardwell, Stamford, Conn., 72 cts., $16.35, $2,881, $75,360; H. W. McNeil, New York, N. Y., 44 cts., $16.50, $9,000, $74,692; Merritt & Chapman Derrick & Wrecking Co., 17 Battery Pl., New York, 50 cts., $17.19, $2,767, $72,288. William F. Williams is City Engr.

+**Ansonia, Conn.**—Bids were received by the Board of Sewer Commissioners Oct. 24 for the construction of Section G of the sewer system, as follows: O'NEIL BROS. & NERO, Hartford, Conn., $9,746 (awarded contract); A. W. Byrne Co., Boston, Mass., $10,112; Brault & Davidson, Hartford, Conn., $11,158; Antonio Conti & Co., Hartford, Conn., $11,453; Streuli & Puckhafer, Bridgeport, Conn., $11,565; Pierson Engineering & Construction Co., Bristol, Conn., $13,530; Henry Spinach Construction Co., Waterbury, Conn., $14,294; Frank D'Aurio Co., Waterbury, Conn., $15,615. The contract calls for the laying of 14,550 ft. of 8, 10 and 12-in. pipe. V. B. Clarke is City Engr. Noted Oct. 26.

South Norwalk, Conn.—Bids will be received by C. E. Dunneback, Comr. of Sewers, until Nov. 6, for the construction of a sewer in East Washington St.

New York, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., Nov. 8, for constructing sewers in various streets. Estimated cost, $16,500.

The lowest bids received Oct. 19 for constructing sewers in the Borough of The Bronx were as follows: Constructing sewer in Tremont Ave., between Sedgwick and Aqueduct Aves., Briggs & McLaughlin, $29,991; constructing sewer in Kingsbridge Terrace, between Kingsbridge Road and Boston Ave., McDonald & Barry, $17,557; constructing sewer in Castle Hill Ave., between Parker St. and Walker Ave., Vinton Construction Co., $3,572.

New York, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., Nov. 3, for constructing sewers in various streets, and until 11 a. m., Nov. 10, for constructing sewer basins.

New York, N. Y.—Bids will be received by George Cromwell, Pres. Borough of Richmond, until noon, Nov. 8, for furnishing all the labor and materials required for constructing a combined sewer in Westervelt Ave. from Curtis Pl. to Fifth St. and a temporary combined sewer in Fifth St., from Westervelt Ave. westward to the Brook, in the First Ward of the Borough of Richmond.

Troy, N. Y.—Bids will be received by the Board of Contract and Supply, James M. Riley, Secy., until 11 a. m., Nov. 3, for constructing a sewer in West Sunnyside.

Beverly, N. J.—Bonds for $35,000 have been voted for the construction of a sewer system. Noted Oct. 26.

Orange, N. J.—Bids will be received by the Committee on Sewers of the Common Council, until 8 p. m., Nof. 6, for constructing sewers and appurtenances according to plans and specifications on file with F. I. Crane, City Engr. P. Allen Smith is Chn. of Com.

Scranton, Pa.—Press reports state that bonds for $54,000 have been sold for the construction of relief sewers.

Verona, Pa.—Bonds for $18,000 have been sold for extending the sewer system.

Baltimore, Md.—Press reports state that the lowest bid received for constructing the second section of the Jones' Falls Conduits, was submitted by Fisher & Carozza, American Bldg., Baltimore, at $704,000.

Jellico, Tenn.—The time for receiving bids for sewer construction has been extended from Nov. 1 to 2 p. m., Nov. 8. The work consists of constructing 5.7 miles of 8 to 15-in. pipe sewers. Walter G. Kirkpatrick, Jackson, Miss., is Engr. A. B. Mahan is Secy. Bd. of Comrs.

Cleveland, Ohio.—Bids will be received by the Director of Public Service until noon, Nov. 3, for draining a portion of Washington Park and Parkway. Plans and specifications may be obtained from the Park Engineer, City Hall. I. C. Hoffman is Secy. Dir. Pub. Ser.

Cleveland, Ohio.—Robert Hoffman, City Engr., is preparing plans for the East 22nd St. section of the intercepting sewer system. Estimated cost, $300,000.

Dayton, Ohio.—Plans have been prepared for the construction of storm sewers in Dry Hollow Creek. Estimated cost, $100,000. F. J. Cellarius is City Engr.

Marietta, Ohio.—The City Council has adopted an ordinance providing for the construction of a storm sewer in Ward St., from Pearl St. to the Ohio River.

Youngstown, Ohio.—Bids will be received by the Director of Public Service, W. H. McMillan, Clk., until noon, Nov. 6, for constructing sewers on various streets. Plans and specifications are on file at the office of the City Engineer.

Columbus, Ind.—The City Council has passed a resolution providing for the construction of the Maple Grove sewer. Estimated cost, $35,000.

Kendallville, Ind.—The City contemplates the expenditure of $18,000 for the construction of a sewer system north of the tracks of the Lake Shore R. R.

South Bend, Ind.—The Board of Public Works is considering the construction of the Bowman Creek drain. Estimated cost, $150,000.

Flint, Mich.—Bids for evtending the Oak Park storm sewer have been received by the Sewer Committee as follows: Bergin & McFadden, $6,020; W. N. Sager, $5,691; W. N. Tilock, $5,615. The engineer's estimate was $3,000.

Racine, Wis.—The Board of Public Works has prepared estimates for sewer construction as follows: For the construction of a main sewer on 21st St., from Lake Michigan to West Boulevard, $69,120; for sewer in Twelfth St., from the river at Cedar Bend to the Lathrop Road, $39,600; for sewer in William St., from Lake Michigan to Douglas Ave., Douglas Ave., from William St. to Goold St., and Goold St., from Douglas Ave. to west city limits, $75,500; total, $185,220.

Dennison, Iowa.—Bids will be received until Nov. 8 by the City Clerk, for enlarging the sewer system. Bruce & Standeven, Bee Bldg., Omaha, are the Engrs.

Manning, Iowa.—Bids will be received about the first of the year for constructing a sanitary sewer system, according to plans prepared by P. A. Edquist, National Bank Bldg., Omaha, Neb.

Omaha, Neb.—We are officially advised that bids for constructing sewers in Sewer District No. 445, were received Oct. 23, as follows: (a) brick, (b) pipe: H. J. Cathroe, (a) $12,217, (b) $12,958; O. P. H. Con. Co., (a) $14,337, (b) $15,096; John C. O'Connell, (b) $15,757; Jas. Jensen, (a) $11,956, (b) $12,892; Wm. Fitch, (a) $11,642, (b) 12,277; Donahue & Peterson, (a) $12,177, (b) $12,170; J. J. Hanighen-Co., (a) $14,216, (b) $15,426; Arthur A. Dobson, (a) $11,586, (b) $11,611; Katz Con. Co., (a) $10,166, (b) $10,556. George W. Craig is City Engr. Noted Oct. 19.

Scottsbluff, Neb.—We are officially advised that plans have been prepared for a sewer system, estimated to cost $12,000. Frederick Alexander is Mayor, and Bruce & Standeven, Bee Bldg., Omaha, Neb., are Consult. Engrs.

+Kansas City, Mo.—Press reports state that the Board of Public Works has awarded the contract for the construction of the East division of the Brush Creek sewer to R. B. & G. T. BROWN, Kansas City, Kan., at $111,360.

***Osceola, Ark.**—Bids will be received by the Commissioners of Sewer District No. 1, Osceola, until 2 p. m., Nov. 9, for the construction of a sanitary sewer system and disposal plant. Plans, specifications and information to bidders can be obtained from the St. Francis Valley Engineering Co., or S. L. Gladish, Secy. of Comrs., Osceola.

***Celina, Tex.**—Bonds have been voted for the construction of a complete sewer system in Celina.

+Fort Worth, Tex.—The U. S. CONSTRUCTION CO., Fort Worth, has been awarded a contract by the Texas & Pacific R. R. Co. for the construction of a reinforced-concrete sewer from Boaz and East Railroad Aves. to an intersection with the city storm sewer at Front and Boaz Sts.

+Payette, Idaho.—We are officially advised that the contract for laying 16,700 lin. ft. of 6 to 15-in. vitrified pipe sewer was awarded Oct. 20 to K. SANSET, Corvallis, Ore., at $18,908. Noted Sept. 21.

+Ely, Nev.—A contract for constructing a covered concrete sewer has been awarded to PAINE & CO. at $8,850.

Las Vegas, Nev.—The city is considering the construction of a sewer system.

Kennewick, Wash.—Bids will be received by the City Council until 11 a. m., Nov. 10, for constructing a sewer system. I. J. Wright is City Clk.

+Long Branch, Cal.—A contract has been awarded to M. N. PEKICH, 317 West Third St., Los Angeles, at $13,000, for constructing a steel riveted pipe sewer 4,400 ft. long.

San Bernardino, Cal.—The City Council has ordered the construction of a 30-in. iron pipe storm drain in A St., between 3d and 16th Sts. Estimated cost, $22,000.

Vallejo, Cal.—Plans are being prepared by Arthur Noyes, City Engr., for the construction of sewers in Monterey and Alabama Sts.

GARBAGE DISPOSAL.

(*+Denotes a contract awarded.*)

Boston, Mass.—The city will construct a garbage disposal plant on Spectacle Island, and six concrete garbage receiving stations in various districts of the city. Louis K. Rourke is Comr. Pub. Wks.

*Bids will be received until Dec. 5 by the Department of Public Works for a 10-year contract for garbage disposal.

***Paterson, N. J.**—The following bids were received on Oct. 17 by the Board of Public Works for a refuse and garbage incinerating plant of 60 tons daily capacity: Witmer-Brown Co., $89,843; MacDonald Engineering Co., $89,500; The Decaire Incinerator Co., two bids, $56,565 and $57,750; The Destructor Co., three bids, $81,000, $70,000 and $52,000; Griscom-Spencer Co., 90 West St., New York, two bids, $52,844 and $48,575.

Monongahela, Pa.—Bonds for $10,000, it is reported, have been sold by the city for the construction of a garbage plant.

***Aurora, Ill.**—Bids will be received until 3 p. m., Nov. 11, by the City Clerk for constructing a garbage crematory with a capacity of 30 tons per 24 hrs. Complete plans and specifications for brick building, furnace and brick stack must accompany all bids. Henry E. Trueniper is Chn. Com. on Health.

Covina, Cal.—Bids will be received until Nov. 7 by the City Trustees for furnishing one street sweeper. F. G. Dessery, 1117 Union Trust Bldg., Los Angeles, is Engr.

STREETS AND ROADS.

(**Denotes that this work is advertised in Engineering News.*)

+Boston, Mass.—The contract for paving and regulating Southampton St., Roxbury, was awarded Oct. 23, to McGUIRE & KIERNAN, at $52,647. Other bids were: James Doherty, $53,489; Coleman Brothers, $55,030; William L. Dolan, $55,082; F. S. & A. D. Gore Corp., $55,660; Hugh Nawn Contracting Co., $64,746; Jeremiah J. Sullivan, $66,154. Louis K. Rourke is Comr. of Pub. Wks.

+Boston, Mass.—The contract for constructing a macadam roadway in Stratford street, West Roxbury, was awarded Oct. 23 to the WEST ROXBURY TRAP ROCK CO., at $9,927. Other bids were: John Kelly Co., $9,999; John McCourt & Co., $10,045; Thomas F. Minton, $11,535; Wm. J. Rafferty Co., $11,715; D. E. Lynch, $12,420. Louis K. Rourke is Comr. of Pub. Wks.

Boston, Mass.—Bids will be received until Nov. 3 by the Department of Public Works for constructing macadam roadways in Gore and Frankfort Sts., East Boston, and in Mallon Road, Dorchester. Louis K. Rourke is Comr. of Pub. Wks.

Boston, Mass.—The Chamber of Commerce favors the widening of Pleasant St., from Park Square to Washington St., to a uniform width of 60 ft., at an estimated cost of $840,000, and the extension of Arlington St. through the Building on the south side of Boylston St. to Providence St., at a width of 69 ft.

+Lawrence, Mass.—We are officially advised that the contract for paving South Broadway from the Falls Bridge to the South Canal Bridge was awarded Oct. 23, to J. J. HAGENBACH & SONS, Lawrence, Mass., at $2.67 per sq. yd. Noted Oct. 19.

+West Hartford, Conn.—The contract for macadamizing Whitney St. has been awarded to THOMAS KEARNEY, Meriden, at $5,251.

***Albany, N. Y.**—Bids will be received by the State Highway Commission, Albany, until 1 p. m., Nov. 27, for improving the following highways: Allegany County, Road No. 945, Wellsville-Hallsport, 4.18 miles; Cattaraugus County, No. 695, Otto-Cattaraugus, 1.21 miles; No. 697, Otto-E. Otto, Part 2, 2.27 miles; No. 959, Randolph-Rutledge, Part 2, 3.87 miles; Cayuga County, No. 687-A, Fairhaven - Sterling - Martville, .17-mile; Chautauqua County, No. 5151, Poland Center-Waterboro, 5.20 miles; Chemung County, No. 5162, Horseheads Village, 1.94 miles; Clinton County, No. 930, Mooers Village, .32-mile; Delaware County, No. 951, Bovina Center-South, 2.34 miles; No. 952, Hobart-Stamford, 4.56 miles; Erie County, No. 5172, Niagara Falls-Buffalo, Part 4, 2.96 miles; Essex County, No. 929, Saranac Lake Village-Bloomingdale Village, 1.44 miles; No. 5179 Schroon Lake-No. Hudson, Part 1, 6.77 miles; No. 5181, No. Hudson-Euba Mills, Part 1, 3.95 miles; No. 5184, Ausable Forks-Jay, Part 2, 2.54 miles; No. 5188, Newcomb-Long Lake, Part 1, 4.62 miles; Franklin County, No. 950, Malone Village-Fort Covington St., .80-mile; Greene County, No. 954, Cairo Hamlet, .46-mile; Madison County, No. 955, Chittenango Village-Seneca Turnpike, .44-mile; Nassau Count, No. 953, Glen Cove, 98-mile; Putnam County, No. 5149, Peekskill-Fishkill, Part 4, 4.20 miles; Rockland County, No. 5165, Long Cove-Haverstraw, 2.16 miles; Ulster County, No. 5169, Saugerties-Catskill, Part 1, 3.76 miles; No. 5173, Kingston-West Hurley, 4.97 miles; No. 5176, Marlboro-County Line, 1.08 miles; No. 5192, Eddyville Bridge, 0.24 miles; Ulster-Delaware County, No. 5177, Pine Hill-Griffins Corners, 3.64 miles; Warren County, No. 5185, Wevertown-North Creek, 6.49 miles. Bids will be received by the States Highway Commission until 1 p. m., Nov. 29, for improving the following highways: Allegany and Cattaraugus Counties, Road No. 5174, Cuba-Friendship, 4.65 miles; Cattaraugus County, No. 958, Gowanda-Dayton, 4.30 miles; No. 960, Rutledge-Leon, Part 2, 2.80 miles; Clinton County, No. 5191, Plattsburgh-Ausable Chasm, Part 1, 6.91 miles; Delaware County, No. 5167, Hales Eddy-Hancock, 8.68 miles; Greene County, No. 5166, Saugerties-Catskill, Part 2, 3.87 miles; Essex County, No. 5182, North Hudson-Euba Mills, Part 2, 5.30 miles; No. 5183, New Russia-Elizabethtown, 3.70 miles; No. 5186, Minerva-Aiden Lair, 6.36 miles; No. 5187, Aiden Lair-Newcomb, Part 1, 5.70 miles; No. 5180, Schroon Lake-No. Hudson, Part 2, 5.39 miles; Hamilton County, No. 5189, Newcomb-Long Lake, Part 2, 8.42 miles; Niagara County, No. 5164, Niagara Falls-Buffalo, Part 2, 3.45 miles; Orange County, No. 313-A, Middletown-Cuddebackville, Part 2, 1.00 miles; Oswego County, No. 5171, Southwest Oswego-Fruit Valley, 1.95 miles; Putnam County, No. 5156, Peekskill-Fishkill, Part 3, 4.40 miles; Rensselaer County, No. 5163, Nassau Village, 0.41 miles; No. 949, Nassau Village, 0.29 miles; Rockland County, No. 5178, Knapps Corners-Nyack, 2.20 miles; Saratoga County, No. 5085, Ballston-Ballston Lake, Part 2, 4.52 miles; Schuyler County, No. 5160, Montour Falls Village, 1.60 miles; Suffolk County, No. 911, Sag Harbor-North Haven, 3.01 miles; Tioga County, No. 5168, Waverly-Oswego, Part 2, 5.34 miles; Tompkins County, No. 5190, Ithaca City-Trumansburg, 2.00 miles; Warren County, No. 5158, Warrensburg-Chestertown, Part 2, 6.50 miles. C. Gordon Reel is Supt. of Highways; John A. Bensel is State Engr., and Charles E. Treman is Supt. of Pub. Wks.

***Blauvelt, N. Y.**—Bids will be received by the State Board of Armory Commissioners, 174 State St., Albany, until noon Nov. 9 for grading and constructing roads at the New York State Rifle Range. F. A. McNeely is Secy. State Armory Comn. Advertised last week.

+Buffalo, N. Y.—The Commissioner of Public Works has awarded a contract to the HENRY B. BURGARD CO., at $13,800, for repaving Oak St., between Genesee and Goodell Sts., 30 ft. wide, with asphalt. The City Council has also authorized the paving of Belmont, Albemarle and Seabrook Sts.

New York, N. Y.—Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., Nov. 10, for regulating and paving various streets.

+New York, N. Y.—We are officially advised that bids for constructing asphalt tile walks along the south Lake Drive in Prospect Drive, were received Oct. 26 by Charles B. Stover, Pres. Park Board, as follows: HASTINGS PAVEMENT CO., 25 Broad St., New York, $13,970 (awarded contract), Barber Asphalt Paving Co., New York, $15,150. Noted Oct. 19.

New York, N. Y.—Bids will be received by Cyrus C. Miller, Pres. Boro. The Bronx, until 10.30 a. m., Nov. 9, for repaving with sheet asphalt on a concrete foundation, over street openings, fire burns, etc., when and where designated in the Borough of The Bronx during the year 1911.

New York, N. Y.—The lowest bids received Oct. 19 for street improvements in the Borough of the Bronx were as follows:

Barber Asphalt Paving Co., 30 Church St., New York, paving with asphalt Loring Pl., from University Pl. to 183d St., $3,674; paving with asphalt block Tiffany St., between Beck St. and the Southern Boulevard, $5,943.

Asphalt Construction Co., Madison Ave. and 137th St., repaving with asphalt block Arthur Ave., between Tremont Ave. and 183d St., $6,336.

United States Wood Preserving Co., 165 Broadway, repaving with wood block Brook Ave., between Third Ave. and 161st St., $6,125. Paving with wood block Webster Ave., between 187th and 189th St., $19,070.

Barry Construction Co., paving with granite block Leggett Ave., between Southern Boulevard and the New York, New Haven & Hartford R. R., $6,771.

Hastings Pavement Co., paving with asphalt block 172d St., between Southern Boulevard and Bryant Ave., $6,336.

Leahy Contracting & Construction Co., 1446 Prospect Ave., repaving with granite 180th St., between Third Ave. and Bronx St., $91,367. Noted Oct. 12.

New York, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., Nov. 8, for regulating, grading and paving various streets.

+Yonkers, N. Y.—The contract for paving Wells Ave. has been awarded to KEARNS & HART, 280 Nepperhan Ave., Yonkers, at $8,198. Noted Oct. 19.

Allenhurst, N. J.—Bids will be received by the Borough Council until 8 p. m., Nov. 2, for the construction of a concrete bulkhead, walk and balustrade on the ocean front in the Borough of Allenhurst in accordance with plans and specifications on file in the office of G. B. Cade, Boro. Clk.

Flemington, N. J.—Bids for the construction of a macadam road between Clinton and Hampton, have been received by the Hunterdon County Board of Freeholders as follows: Russell Klockner, Trenton, Class A oil, $61,445; Class B oil, $64,943; Miles Tighe Co., Easton, A, $61,882; B, $63,781; Bushkill Quarry and Construction Co., Easton, A, $59,475; M. L. Demarest, Sewaren, A, $55,065; B, $57,252; Salmon Construction Co., Netcong, A, $53,661; B, $57,034.

Paterson, N. J.—Bids will be received by the Road Committee of the Board of Chosen Freeholders until 2 p. m., Nov. 15, for the improvement of Lafayette Ave., Borough of Hawthorne, by paving from the end of the present macadam at Read Ave. to the Godwinville Road, with bituminous macadam. Plans, profile and cross sections may be seen and forms of proposal and specifications obtained at the office of the County Engineer. William H. Mason is Chn. Road Comn. and George W. Botbyl is Clk.

+Greensburg, Pa.—The contract for the extension of the Amiesite Road from the Greensburg Country Club to the city line has been awarded to CHARLES E. EASTBURN, Yardley, at $20,360.

Philadelphia, Pa.—Bids will be received by Joseph F. Hasskarl, Dir. Dept. Wharves, Docks and Ferries, until noon, Nov. 6, for repaving Race St. Pier with wood block. Estimated cost, $21,200.

Washington, Pa.—The Commissioners of Washington County are considering the constructon of the Donora-Charleroi Road, estimated to cost $335,000.

Baltimore, Md.—Bids will be received by the State Road Commission until Nov. 15 for constructing 22¼ miles of road, as follows: Anne Arundel County, 2.60 miles, along Annapolis Boulevard, between Revell and Boone, stone macadam; Calvert County, 2.93 miles, from Owings toward Prince Frederick, stone surfacing; Carroll, 3.01 miles, from Manchester toward Westminster, stone macadam; Garrett, 4.39 miles, between Fort McHenry and Accident, stone macadam; Prince George's, 4.70 miles, along Baltimore and Washington Boulevard, between Contee and Beltsville, stone macadam, and 4.71 miles between District of Columbia. John M. Tucker is Chn., of Comn.

***Baltimore, Md.**—Bids will be received by the City Register until 11 a. m., Nov. 8, for grading, curbing and paving various streets. The work consists of: 1,585 cu. yds. grading, 16,727 sq. yds. sheet asphalt on cobble, 4,740 sq.yds.sheet asphalt, 4-in. concrete base 1,210 lin. ft. old curb reset, 6,780 lin. ft. old curb reset and redressed, 3,800 lin. ft. new unarmored 6-in. concrete curb, 1,070 lin. ft. granite block headers, 4,322 sq. yds. vitrified block on 6-in. concrete base, railway area, 2,180 sq. yds. cobble repaving, 999 cu. yds. concrete (other than 4-in. base). Specifications and proposal sheets will be furnished upon application to the office of the Paving Commission, City Hall. Plans and profiles are on file in the office of H. Kent McKay, City Engr., and Ch. Engr. of the Paving Comn. R. Keith Compton is Chn. Comn.

New Cumberland, W. Va.—We are officially advised that bonds for $125,000 have been voted by Grant District, Hancock County, for paving roads. C. E. Grafton is County Road Engr.

+Jacksonville, Fla.—We are officially advised that bids for constructing 27,000 cu. yds. of asphalt macadam pavement were received Oct. 27, as follows: Geo. R. Foster, $1.28 per sq. yd.; Logan Engineering Co., $1.1925; L. F. Drysdale, $1.34; F. W. Long, $1.34; DANIEL LYST & DOUGLAS, $1.07 (awarded contract). Noted Oct. 26.

Hamilton, Ala.—Bids will be received by the Board of Commissioners of Marion County until Nov. 15, for grading, draining and surfacing with gravel approximately 2½ miles of state aid road, and for continuing the road for a distance of about eleven miles further into the country. W. S. Keller is State Highway Engr.

+Lexington, Miss.—See item under Water Supply-Irrigation.

New Orleans, La.—The lowest bid received for reconstructing the cutoff road in Algiers, was submitted by Thomas Egan, at $5,794.

Louisville, Ky.—Bids will be received by the Board of Public Works until Nov. 3 for paving various streets with vitrified block. Estimated cost, $23,000.

Louisville, Ky.—Bids will be received by the Board of Public Works until Nov. 17, for improving Frankfort Ave. from Raymond to Bayly Ave. The street is to be of asphalt and the gutters of vitrified blocks. The cost of the improvement has been estimated at $20,000.

Cadiz, Ohio.—Bids will be received at the office of the Commissioners of Harrison County until 1 p. m., Nov. 3, for grading and macadamizing 1.31 miles of the Cadiz-Jewett Road in Archer Township. The construction consists of a waterbound macadam road with a telford base. Specifications, plans and profiles are on file in the office of the County Commissioners at Cadiz, Ohio, and at the State Highway Department. Estimated cost, $11,046.

Canton, Ohio.—Bids were received by the Board of Control Oct. 25 for street improvements, as follows: Paving Cedar St.: Logan D. Burd, $17,204; Turnbull & Son, $18,731; Wise & Krahill, $17,520; F. A. Downs, $16,590; P. Hahn & Son, $17,205; J. B. Smith, $17,063. Improving Moyer Ave.: P. Hahn & Son, $3,832; L. D. Burd, $4,377; F. A. Downs, $3,733. Paving Belden Ave.: Turnbull & Son, $17,884; Press Campbell, $17,879; F. A. Downs, $18,432; L. D. Burd, $18,785; P. Hahn & Son, $18,607.

East View, Ohio.—Bids will be received by John G. Litzel, Vil. Clk. until noon, Nov. 20, for furnishing the material and labor necessary for the improvement of Kinsman Road from the west to the east line of the Village, by establishing a grade and constructing a sidewalk on either side, according to the plans and specifications on file with the Clerk, and at the office of the F. A. Pease Engineering Co., Williamson Bldg., Cleveland, Ohio.

✚**Mount Gillad, Ohio.**—The contract for constructing the Shaw Road has been awarded to MILLER & AULT, at $26,631.

Youngstown, Ohio.—Bids will be received by the Board of Public Service until noon, Nov. 6, for paving various streets. W. H. McMillen is Clk.

✚**Muskegon, Mich.**—The Commissioners have awarded to the CLEVELAND, TRINIDAD PAVING VO., the contract for paving Pine St., from Market St. to Lawrence Ave., with asphalt, at 60 cts. per cu. yd. for excavation and $1.79 per sq. yd. for pavement.

✚**East St. Louis, Ill.**—The Board of Public Works has awarded contracts for street improvements, as follows: 21st and 18th Sts., to J. P. KELLEY at $7,768, and $7,513; Broadway, from Viaduct to Eads Bridge, MEYER & THOMAS, $29,125; Exchange Ave. MEYERS CONSTRUCTION CO., $26,022.

Minneapolis, Minn.—Bids will be received by A. P. Erickson, County Audr., until 11 a. m., Nov. 6, for preparing and graveling road No. 50, Contract No. 33, gravel to be taken from the Patnode Pit or Makowski Pit, according to plans and specifications on file in the office of the County Surveyor.

Hollister, Mo.—Land owners of the Hollister-Kirbyville special Road District will expend $15,000 for the improvement of about eight miles of highway.

✚**Waco, Tex.**—The County Commissioners have awarded to FLANNIGAN & PRITCHETT, Waco, the contract to build gravel roads in the McGregor community. Estimated cost, $100,000.

Woodland, Wash.—Bids will be received by the Town Clerk of Woodland, Cowitz County, until 5 p. m., Nov. 6, for the improvement of a portion of Front St., according to specifications on file at the office of the Clerk.

Santa Barbara, Cal.—We are officially advised that the only bid received Oct. 23, for grading 11.14 miles of road was submitted by the Sandercock Transfer Co., San Luis Obispo, Cal., at $40,250. The bid was rejected, and the work will be done by day labor. C. A. Hunt is County Clk. Noted Oct. 19.

✚**Bartlesville, Okla.**—Contracts for for paving Shawnee St. and other streets have been awarded as follows: To PLUNKETT & YALE, Coffeyville, Kan., at $27,000; to WALTON, HANNA & CLARK, at $20,000.

Kelso, Wash.—Bids will be received by M. Lord, City Clk., until 7 p. m., Nov. 7, for improving Allen St.

North Yakima, Wash.—Bids will be received by the County Commissioners until 2 p. m., Nov. 8, for constructing a permanent highway according to plans on file with the County Engineer.

Spokane, Wash.—Bids will be received by the City Council until 11 a. m., Nov. 9, for the improvement of Bernard St., from Sixth Ave. to Eighth Ave., by grading, curbing, and paving, according to the plans and specifications on file in the office of the City Engineer.

✚**Tacoma, Wash.**—A contract for paving South M St., from Sixth to Twelfth Ave., has been awarded to the ANDERSON CONSTRUCTION CO., at $19,000.

Vancouver, Wash.—Bids will be received by the City Clerk, until 7.30 p. m., Nov. 6, for constructing concrete walks and curbs, and laying hard surface pavements, either bitulithic or asphalt, according to plans filed in the office of the City Engineer, Engleman Bldg.

Boulder Creek, Cal.—Bids will be received by the Board of Supervisors until 2 p. m., Nov. 6, for the construction of a corrugated iron culvert and fill at Harmon's Mill on Bear Creek in San Lorenzo Road District, according to plans and specifications on file with H. H. Miller, Clk. of Bd.

Dorris, Cal.—Bids will be received by the Clerk of the Board of Supervisors of Siskiyou County until 10 a. m., Nov. 7, for the construction of a portion of the Antelope-Bray Roads, near Bray Station in Klamath Road District, Siskiyou County. Specifications are on file with W. J. Neilon, Clk.

✚**Marysville, Cal.**—The contract for macadamizing the Hedges Road has been awarded to the ROTH CONSTRUCTION CO., Sacramento, Cal., at $5,440.

Monterey, Cal.—Bids will be received by the Clerk of the City Council until 7.30 p.m., Nov. 7, for the improvement of Van Buren St. from Scott to Granklin St.

✚**Madera, Cal.**—A contract for paving has been awarded to the RANSOME CRUMMEY CO., Oakland, Cal., at $96,110. The other bidders were: Federal Construction Co., San Francisco, $98,189; E. S. McCarthy, San Francisco, $99,290; Worswick Street Paving Co., Fresno, $115,811; California Road & Street Improvement Co., Fresno, $117,822.

✚**Quincy, Cal.**—The contract for constructing the Seneca Road has been awarded to George M. White, at $7,680.

Stockton, Cal.—Bids will be received by the Board of Supervisors, until 10 a. m., Nov. 6, for grading and graveling the County road from Tracy north 1 mile, thence west one-half mile and from Namta south a distance of 4 miles, and for the construction of the Riddle trestle near Ripon, according to plans and specifications on file with Eugene D. Graham, Clk.

Yreka, Cal.—Bids will be received by W. J. Neilon, Clk. Bd. County Supervs., until 10 a. m., Nov. 7, for the construction of a portion of the Antelope-Bray Road near Bray Station in Klamath Road District, Siskiyou County.

Edmonton, Alta.—Bids will be received by the City Commissioners until noon, Dec. 1, for grading and curbing approximately 100,000 sq. yds. of streets.

MANUFACTURING PLANTS.

(✚Denotes a contract awarded.)

East Cambridge, Mass.—The American Net & Frame Co., 575 Atlantic Ave., will construct a factory building on Charles St. The cost will be about $45,000.

Lynn, Mass.—Charles T. Main, Mill Engr., 25 Devonshire St., Boston, has prepared plans and specifications for a new stock house for the Lynn Gas & Electric Co., Lynn, Mass. The building, 150 × 60 ft. will be of brick and timber construction with two stories and basement.

Lowell, Mass.—The Aberthaw Construction Co. has completed the excavation for the beam and hide house for the American Hide & Leather Co., at Lowell, Mass. This building is located in the rear of the tanning plant. It is to be constructed of reinforced concrete throughout. The vats, floors, and stairs are all of concrete. The hide house is to be of the mushroom construction. The other buildings are of the ordinary beam and girder type. Lockwood, Greene & Co., are the Consult. Engrs.

✚**Somerville, Mass.**—The North Packing & Provision Co. will construct a $25,000 boiler house on Somerville Ave. The contract is held by WILLIAM CRANE, Vassar St.

Worcester, Mass.—A factory will be erected for the T. K. Earl estate at 93 Grafton St. William D. Thompson, State Mutual Bldg., is Engr.

✚**Ilion, N. Y.**—The general contract has been awarded to R. RICHARDS & SON, Utica, N. Y., for the erection of a 6-story and basement factory addition, 52 × 180 ft., for the Remington Typewriter Works. Linn Kinne, Utica, prepared the plans. The cost will be about $75,000.

Lafayette, N. Y.—E. M. Patterson, Jersey City, N. J., has plans in preparation for a 1-story pottery factory, 100 × 200 ft., to be erected here by Lisseen & Schwartz, 34 Morris St., Jersey City, N. J.

Middletown, N. Y.—The Ideal Wrapping Machine Co. has been incorporated with a capital of $150,000 to manufacture paper wrapping machines, etc., and to erect a plant. The incorporators are Olin S. Fellows, Archibald E. Hopkins and Frederick B. Williams, all of Middletown.

New York, N. Y.—Bids will be received by the Commissioner of Correction at the Department of Correction, 148 East 20th St., until 11 a. m., Oct. 31, for an additional brick building to the power plant on Hart's Island, New York, to be used as an engine and dynamo room.

New York, N. Y.—Bids will be received by the Department of Public Charities, East 26th St., until Nov. 13, for furnishing all labor and materials necessary or required for all excavation, masonry, steel and iron work, roofing and metal work, carpentry, glazing, painting, hardware, plumbing, heating and ventilating, electric work, laundry plant, fixtures and all other work for the erection and completion of a new laundry building situated to the west of the service building, City Hospital District, Blackwell's Island, Manhattan Borough. Michael J. Drummond is Comr.

Oneida, N. Y.—Plans have been completed by the National Iron Foundry & Supply Co., Williamsport, Pa., for the construction of a plant at Oneida.

✚**Edgewater, N. J.**—The contract has been awarded to JAMES STEWART & CO., 30 Church St., New York City, for the construction of a plant for the Midland Linseed Co., Minneapolis, Minn. Bids will be received for power equipment and machinery.

Newark, N. J.—The Dixon Cascade Pump Co., Inc., 17 Canfield St., Newark, N. J., has been incorporated to manufacture centrifugal pumps and to erect a factory at Badger Ave. and Runyon St. The company will expend about $50,000.

An addition will be made to the plant of M. Gould's Son & Co., 61 Hamilton St. The addition will consist of a 4-story brick building. Fred A. Phelps, Union Bldg., is the Consult. Engr.

Eisele & King will erect a 2-story automobile service building at 588 Broad St. The building will be 28 × 90 ft., and will include a machine shop.

Birdsboro, Pa.—It is reported that an erecting shop will be built by the Birdsboro Steel Foundry & Machine Co.

Burlington, Pa.—Reports state that the Burlington Distilling Co. has prepared plans for the erection of a $40,000 plant for the manufacture of denatured alcohol at Marys St.

Chester, Pa.—Plans are being prepared for the proposed new plant of the Root Dairy Co., West Grove.

Lawrenceville, Pa.—The Heppenstall Forge & Knife Co. will erect a 1-story steel building at 47th and Hatfield Sts. The cost is $25,000.

Philadelphia, Pa.—The Gorgas-Pierce Manufacturing Co. will erect a 4-story reinforced concrete and brick manufacturing plant at 130-136 East Allen St.

Bids are being received by the Hess-Bright Manufacturing Co. for the construction of a plant at Front St. and Erie Ave. Plans have been prepared by Dodge, Day & Zimmerman.

Wilkes-Barre, Pa.—Plans have been filed by Reilly & Schroeder for the construction of a carpet sweeper factory to be known as the Goeringer Sweeper Co., Inc. Fred Goeringer is Pres.

York, Pa.—The Northern Central Ry. Co. will erect a freight yard and car shops between Duke and Queen Sts. The cost will be about $100,000. H. M. Carson, Williamsport, Pa., is Gen. Supt.

Baltimore, Md.—It is reported that Baltimore and other Southern financial interests, in conjunction with New York bankers, have organized the Interstate Chemical Corporation of Virginia, capitalized at $7,250,000. The concern will extend its existing fertilizer plants and construct new ones. A. S. Webb, Pres. of the Lincoln Trust Co., New York, is interested.

Richmond, Va.—Plans have been completed by Charles H. Fisher, Arch., 108 North Ninth St., for the construction of a factory for Epps & Snider.

Dothan, Ala.—A site has been purchased for a proposed chemical plant, of which Arthur Pelzer is Pres. The approximate cost will be $150,000.

Bristol, Tenn.—The Paxton Lumber Co., Bristol, Tenn., will construct a planing mill to be operated in connection with its woodworking plant.

Chattanooga, Tenn.—The Central Woodworking Co., Chattanooga, will construct a woodworking plant, with a capacity of about 35,000 ft. of lumber per day.

✚**Akron, Ohio.**—The contract has been awarded by the Goodyear Tire & Rubber Co., Akron, to the HUNKIN-CONKEY CONSTRUCTION CO. for erecting an addition to its plant.

Ashtabula, Ohio.—The Fried, Kellar, Kohn Co. will, it is reported, erect an addition to its plant.

Canton, Ohio.—The Canton Storage & Transfer Co., has been granted a permit to construct a 3-story concrete building at 5238 East Third St.

Cincinnati, Ohio.—The Ault & Wiborg Co., Cincinnati, will erect a large addition to its plant on Northern Ave.

Cleveland, Ohio. — The Cleveland Pneumatic Tool Co., Cleveland, proposes to construct a building to be used as a warehouse.

Columbus, Ohio.—Plans are being prepared by the John W. Brown Manufacturing Co. for the erection of a 3-story addition, 27x70 ft., to its plant.

Columbia, Ohio.—Plans will soon be completed for the construction of the proposed addition to the Columbus Wire and Iron Works on Popular Ave. The capacity of the plant will be doubled.

Elyria, Ohio.—The Troxel Manufacturing Co. proposed to construct a 2-story brick building, 60 × 300 ft. The cost will be about $40,000 or $50,000.

Lockland, Ohio.—Plans have been completed by G. W. Drach, Union Trust Bldg., Cincinnati, for the construction of an addition to the plant of the Central Manufacturing Co.

Marietta, Ohio.—The Pioneer Motor Car Co. has had plans prepared for the erection of an automobile repair shop and garage.

Maryville, Ohio.—The Robinson & Albright Co., Maryville, will erect a new packing plant.

Springfield, Ohio.—The Foos Engine Co., Springfield, Ohio, is having plans prepared by R. C. Gotwald, Arch., for the construction of an addition to its plant.

Zanesville, Ohio.—The Ohio Pottery Co., Zanesville, will rebuild its plant, which was recently destroyed by fire.

Decatur, Ind.—The Hilland St. Louis Sugar Co. will erect a plant here. The cost will be about $1,600,000, it is reported.

Cadillac, Mich.—The Cummer-Diggins Co., Cadillac, is contemplating erecting a shingle mill to be used in connection with its $20,000 plant.

South Haven, Mich.—The Cosavant Bros. will construct a pipe organ factory to be used in connection with their plant at Hyacinth, Que. Plans are being prepared.

✚**Detroit, Mich.**—R. E. Raseman, 1302 Penobscot Bldg., has awarded the following contracts for the 4-story power-house for the Cadillac Motor Co., 1343 Cass Ave.: Structural iron work, RUSSEL WHEEL & FOUNDRY CO.; general contract, A. A. ALBRECHT CO., 820 Penobscot Bldg. The cost will be about $60,000.

✚**Detroit, Mich.**—Mildner & Eisen, 1018 Hammond Bldg., Detroit, have awarded the general contract for the 3-story factory addition for the Kolb Golfrieson Co., 1093 Gratiot Ave., to O. MISCH, 62 Home Bank Bldg. The cost will be about $25,000.

✚The Acme Electric Heater Co., 807 Scottin Ave., have awarded the general contract for a 2-story factory building, 37 × 100 ft., to J. J. HICKEY, Champlain and Leib Sts.

✚The Commercial Milling Co., Randolph and Atwater Sts., has awarded the general contract for a flour mill to be eight stories and basement, to BRYANT & DETWILER, Hammond Bldg. The cost will be about $75,000.

✚John Scott & Co., 1603 Ford Bldg., have awarded the following contracts for the proposed factory addition for the Buhl Stamping Co., Third and Larned Sts., to H. CAREW, 210 Joseph Campan Ave., for masonry; carpentry, to C. KELLER & CO., 154 Woodward Ave. The building will cost about $30,000.

✚Stanley F. Kadow, 988 Kinnickinnic Ave., Milwaukee, Wis., has awarded the general contract for a 2-story and basement cold storage warehouse, 90 × 115 ft., for the Cudahy Bros. Co., of Cudahy, Wis., to MAX BARTHOLOMEW SON & CO., 466 Warren Ave., E. Detroit. The cost will be $100,000.

✚Rogers & Bonnah, 1310 Penobscot Bldg., have awarded the general contract for remodeling the power building for the Murphy Power Co., Congress and Wayne Sts., to A. A. ALBRECHT CO., 820 Penobscot Bldg.

Varney & Winter, 58 Equity Bldg., Detroit, are preparing plans for a 2-story factory for H. G. Row, 378 Winder St.

✚Mildner & Eisen, 1018 Hammond Bldg., has awarded the contract for the structural iron work for a 4-story brewery building to the JACKSON, CHURCH, WILCOX CO. The Banner Brewing Co., Saginaw, Mich., is the owner. The cost is $40,000.

Chicago, Ill.—Swift & Co., Chicago, are contemplating erecting an addition to their plant. The cost will be about $40,000.

Milwaukee, Wis.—The Vilter Manufacturing Co. has secured a permit to erect a 1-story factory on Clinton St. The cost will be about $27,000.

Milwaukee, Wis.—The B. J. Johnson Soap Co. will construct a large soap factory on Fourth and Fowler Sts. Plans are being prepared.

✚The general contract for the $100,000 ice plant for the Schlitz Brewing Co., to be erected on Walnut St. has been awarded to HENRY DANISCHEFSKY.

Marinette, Wis.—The Chamber of Commerce has secured a site for a fireproof excelsior plant which is to be erected by A. Nabighorst of Rice Lake, Wis., and N. W. Selle of Chicago, Ill., for Marinette. A $50,000 factory structure will be erected.

Racine, Wis.—The plant of the Hartman Trunk Co. has been damaged by fire with an estimated loss of $85,000. The plant will be rebuilt.

✚**Council Bluffs, Iowa.**—The contract has been awarded to MEULTON & EVANS, Minneapolis, for the construction of a fireproof feed mill for the Trans-Mississippi Grain Co. Capacity 10,000 bushels of corn daily.

Des Moines, Iowa.—The Cownie Tanning Co., Des Moines, will probably expend $20,000 in improving its plant. New machinery will be needed. C. R. Cownie is Pres.

✚**St. Paul, Minn.**—The contract for the general construction of the manufacturing plant of Griggs Cooper & Co., to be built in the Midway District has been awarded to the F. J. ROMER CONSTRUCTION CO., 200 Ramsey St., St. Paul. The work will be done on a percentage basis and consists of a group of three 2-story structures of reinforced-concrete construction. Reed & Stem, New York City and St. Paul, Minn., are Archs. The cost will be about $500,000.

Topeka, Kan.—The Mutual Ice & Cold Storage Co., Topeka, will spend about $50,000 in improving its plant.

St. Louis, Mo.—The Plantation Equipment Co., which has applied for articles of incorporation to engage in

the manufacture of farm machinery propelled by gasoline engines, expects to construct a large plant here. William C., Henry C., Arthur Zelle, are the promoters.

St. Louis, Mo.—The American Furnace Co., St. Louis, will construct a factory building. The cost will be about $16,000, exclusive of machinery.

Bryan, Tex.—The Houston Ice & Brewing Co., of Houston, will install a new ice factory here. It will also erect a modern bottling works which will be operated in connection with the former plant. The cost of these improvements will be about $50,000.

Eagle Pass, Tex.—The Eagle Pass Ice Manufacturing Co., which has been organized here with a capital of $20,000, will install an ice plant.

Falfurrias, Tex.—The People's Ginning Co. has been formed here with a capital of $12,000. The incorporators are R. E. McBryde, J. H. Allen, H. L. Inselmann and others.

Galveston, Tex.—The Magnolia Petroleum Co., with headquarters here, will lay an oil pipe line from the Electra field in Wichita County to Corsicana, a distance of about 185 miles. The company operates a refinery at Corsicana and the pipe line will be used to transport the crude oil for this plant. It is reported that it will also build a pipe line from Corsicana to Beaumont where it has another refinery.

Giddings, Tex.—The Giddings Creamery Co. has been reorganized under the name of the Giddings Creamery-Ice Manufacturing Co. with a capital of $20,000. It will install an ice factory and cold storage plant.

San Angelo, Tex.—Paul Garrett and associates will install a flour mill and cotton gin here at a cost of about $35,000.

San Antonio, Tex.—The Tamilina Milling Co. has been formed here with a capital stock of $60,000. Incorporators are B. M. Martinez, F. A. Chapa and others.

Ada, Okla.—The Ada Compress Co. will start work on its plant which was recently destroyed by fire at an estimated loss of $85,000.

Kelly, N. Mex.—C. W. Lerchin, of Kelly, will install new machinery upon mines that he recently purchased in the Copper Basin district, Arizona.

Ray, Ariz.—The Ray Central Copper Co. has decided to install a 1,500-ton mill at its property near Ray.

Bend, Ore.—The Scalon-Gipson Lumber Co. will erect a plant in this place.

Chino, Cal.—The American Beet Sugar Co. will start construction work shortly on enlarging its plant. It is expected that $130,000 will be spent on the works.

El Paso, Cal.—Bids are being prepared by the Darbyshire-Harvie Co., Williams Jennings Co. and the El Paso Bridge & Iron Co. for the steel work of the new Pearson factories and mills, which will amount to more than 1,200 tons, exclusive of the paper mills.

Montreal, Que.—It is reported that the consolidation of Canadian jewelry interests, both retail and manufacturing, is under way and for this purpose a new company to be called the Canadian Jewellers, Ltd., has secured a charter with authority to capitalize at $5,000,000. The merger will include manufacturing establishments in Montreal, Toronto, and other cities together with a string of 60 or more retail stores in various locations. J. Mackay of Montreal will be Pres.

Ottawa, Ont.—It has been officially announced that the Canadian Northern Ry. Co. will construct at Rideau Junction, Ont. (adjoining Ottawa, Ont.) the main car shops for the system and the erection of the shops will be commenced on the completion of the transcontinental line in two years' time. The shops will be a duplication of the Angus shops of the Canadian Pacific Ry. at Montreal. All the necessary land has been purchased and about $5,000,000 will be expended at this point by the Co. Sir William MacKenzie is Pres., Toronto, Ont.

Brockville, Ont.—The Cassitt Co. will build a 2-story brick addition to its plant.

The Burrill Works, Ltd., manufacturers of cream separators, are ready to award the contract for 2-story brick addition to factory.

El Carmen (Durango), Mex.—The El Carmen Mining Co., of El Carmen, will erect a mill on its property here. F. C. Alley, El Carmen, is Mgr.

Parral, Mex.—The Esmeralda-Parral Mining Co. will install air compressor, boilers, hoists and other equipment upon its property near Parral. William P. Fairman, of Philadelphia, is Pres.; Wade Armstrong, of Parral, is Supt.

Tampico, Mex.—The Bordo Ice & Power Co. will install a 75-ton ice factory here. C. C. Freston is Ch. Engr.

MISCELLANEOUS CONTRACTS.

*(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and Irrigation projects, etc., will be found under Water Supply—Irrigation.

Towboats.—Boston, Mass.—Bids will be received until noon, Nov. 6, by the Metropolitan Park Commission, 14 Beacon St., Boston, Mass., for furnishing towboats for breaking ice in the channels of the Charles River Basin. John R. Robbin is Engr.

Stable.—Newport, R. I.—Bids will be received until 11 a. m., Nov. 18, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a stable at the Naval Torpedo Station, Newport. R. C. Hollyday is Ch. of Bureau.

***Bulkhead Wall.**—Providence, R. I.—Bids will be received by the State Harbor Improvement Commission, Providence, until 3 p. m., Nov. 28, for the construction of a bulkhead wall, about 182 ft. long, and a wooden pier, about 120 ft. wide and 600 ft. long, in the city of Providence. Terms and requirements for the bidding and plans and specifications for the work may be procured at Providence. Plans, specifications and proposals of other construction than specified in the specifications, as an alternate to the work described, will be considered from responsible and experienced contractors. Samuel M. Conant is Chn.

Metallic Furniture.—New York, N. Y.—Bids will be received by William S. Andrews, Comr. of Records of the County of New York at the Hall of Records, Boro. Manhattan, Room 12, until noon, Nov. 13, for furnishing metallic case sections and bases, metallic desk sections and desks or stands, and metallic curtain cases and bases for the office of the Clerk of the County of New York, in the New York County Court-House; as shown on plans or as may be necessary to complete the work in a first-class and proper manner, all to be done in accordance with the specifications and accompanying drawings prepared under the direction of the Commissioner of Records, County of New York, by James V. Reddy, Arch., 41 West 33d St., New York.

Repairs to Pier.—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, Nov. 6, for Contract No. 1295, for furnishing all the labor and materials required for making repairs to the pier at East 96th St., East River, Boro. Manhattan.

Materials for Repairs.—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, Nov. 10, for Contract No. 1297, for furnishing all the labor and materials required for furnishing and delivering materials for repairs and replacements.

***Channel Improvement.**—New York, N. Y.—Bids will be received until Nov. 27 by Col. W. M. Black, Corps Engrs., U. S. A., New York, for removing obstructions in Middle Reef in Hell Gate, Middle Ground off Sunken Meadow, and in the channel between North and South Brother Islands, East River, New York.

Parks.—New York, N. Y.—The Board of Estimate on Oct. 19 voted to acquire two seaside parks, one at the site of Dreamland, Coney Island, to cost $1,000,000, and the other at Rockaway Beach, to cost $1,225,000.

Fire-House.—Huntington (L. I.), N. Y.—Bids will be received until Nov. 9 by the Board of Fire Commissioners for the construction of a fire-house. W. H. Spaulding, Jamaica (L. I.), N. Y., is Arch.

***Concrete.**—Montezuma, N. Y.—The Kinser Construction Co., Montezuma, has to let 25,000 cu. yds. of concrete, including piling and other work, Barge Canal, Montezuma. Erroneously noted last week as McKinser Construction Co.

+Pier.—Jersey City, N. J.—The Central R. R. of New Jersey has awarded the contract to the J. W. FERGUSON CO., of Paterson, N. J., for constructing Pier No. 11 here. The pier will be of piles and timber 200 ft. long and 133 ft. wide.

Memorial Arch.—Valley Forge, Pa.—Bids will be received until noon, Nov. 15, by Maj. Herbert Deakyne, Corps Engrs., U. S. A., 815 Witherspoon Bldg., Philadelphia, Pa., for erecting the memorial arch at Valley Forge.

Projectiles.—Washington, D. C.—Bids will be received until noon, Nov. 8, at the Bureau of Ordinance, Navy Dept., Washington, D. C., for furnishing 1,200 12-in., 1,500 8-in., 1,000 5-in., 10,000 3-in., 50-lb., 10,000 6-lb., 10,000 3-lb. and 50,000 1-lb. target projectiles; also until noon, Nov. 22, for furnishing 20,000 5-in. 50-lb. common projectiles.

Dredging.—Washington, D. C.—Bids will be received until noon, Nov. 18, by Lt.-Col. W. C. Langfitt, Corps Engrs., U. S. A., Washington, for dredging in Mattaponi and Pamunkey Rivers.

Cable. — Washington, D. C. — Bids were received as follows on Oct. 30 by the Chief Signal Officer, War Dept., Washington, for furnishing (a) 24,000 ft. Type 305; (b) 5,000 ft. Type 308, and (c) 12,000 ft. Type 311 submarine cable: Standard Underground Cable Co., Westinghouse Bldg., Pittsburgh, Pa., (a) 13.9 cts., (b) 23.2 cts., (c) 45 cts.; Western Electric Co., 463 West St., New York, (a) 15.7 cts., (b) 23.6 cts., (c) 40.9 cts., total, $9,856; National Conduit Cable Co., New York, (a) 17.3 cts., (b) 27.3 cts., (c) 47.3 cts., total, $11,193; American Electric Works, Phillipsdale, R. I., (a) 14.7 cts., (b) 23.1 cts., (c) 39.9 cts., total, $9,471; Waterbury Co., 80 South St., New York, (a) 21.6 cts., (b) 24 cts., (c) 43 cts., total, $11,544.

+Locomotive Crane Track.—Norfolk, Va.—The contract for the renewal of the 40-ton locomotive crane track at the navy yard, here, has been awarded by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., to C. M. LEACH, Boston, Mass., at $19,685.

***Dredging.**—Charleston, S. C.—Bids were received as follows on Oct. 27 by Maj. G. P. Howell, Corps Engrs., U. S. A., Charleston, for dredging the canal between Charleston and McClellanville, S. C: Simons-Mayrant Co., Charleston, 17.7 cts. per cu. yd.; total for 200,000 cu. yds., $34,400; J. C. Titzell, Savannah, Ga., 19.1 cts. for 150,000 cu. yds.; 26 cts. for 50,000 cu. yds.; total, $41,650; Hillsboro Dredging Co., 23.9 cts.; total for 200,000 cu. yds., $47,800.

***Hulls and Boilers.**—Charleston, S. C.—Bids will be received until noon, Dec. 1, by Maj. G. P. Howell, Corps Engrs., U. S. A., Charleston, for constructing and delivering two steel hulls and boilers for stern-wheel, combination bucket dredge and snagboats "Pedee" and "Wateree."

Tunnel. — Chatanooga, Tenn. — Bids were received by he County Commissioners on Oct. 14 for completing the Mission Ridge Tunnel. The lowest bid was submitted, it is reported, by C. A. Riley, of Omaha, Neb., at $60,000.

***Cut Stone.**—Nashville, Tenn.—Bids will be received until 11 a. m., Dec. 2, by Maj. Edgar Jadwin, Corps Engrs., U. S. A., Nashville, for cut stone, delivered at Locks Nos. 2 and 3, Cumberland River.

Fire Engine Station. — Cleveland, Ohio.—Bids will be received until noon, Nov. 6, by F. G. Hogen, Dir. Pub. Safety, for the necessary labor and material for the construction of a fire engine station at Ashbury Ave., N. E., according to plans and specifications on file at the office of Dercum & Beer, Archs., 307 Columbia Bldg., Cleveland.

Parks.—Youngstown, Ohio.—The City Council has passed an ordinance providing for an issue of $20,000 of bonds for the improvement of parks.

Fish Hatchery.—Indianapolis, Ind.—George W. Miles, Comr. of Fisheries and Game, Room 49, State House, Indianapolis, will soon ask for bids for the construction of a fish hatchery at Try Lake and the improvement of a 40-acre fish pond.

Telephone Plant.—Wallace, Ind.—The Wallace Telephone Co., Wallace, recently incorporated, is in the market for material for the construction and equipment of a telephone exchange and system. Thomas Keller, A. B. Grimes and Butler Meyers are Directors.

+*Channel Excavation.—Chicago, Ill.—The Trustees of the Sanitary District of Chicago have awarded the contract for the excavation and construction of Section 2 of the Calumet-Sag Channel to WINSTON BROS. CO., Minneapolis, Minn., at $365,070. Bids were opened on Oct. 5.

+Metal Wall Lockers.—Chicago, Ill.—The contract for metal wall lockers, bids opened by the Depot Quartermaster, U. S. A., Chicago, has been awarded to MERRITT & CO., of Camden, N. J., at the following prices: Single, $8.34; double, $15.34; triple, $22.32; quadruple, $39.28.

Drain.—Clarion, Iowa.—Bids will be received until Nov. 14 by E. M. Callender, County Audr., Clarion, for the construction of Drain No. 7, Section 6, Troy Township. The drain will be constructed of the following No. 1 salt glazed vitrified tile: 1,300 ft. of 10-in., average cut, 6.95 ft.; 1,000 ft. of 12-in., average cut, 7.81 ft.; 1,300 ft. of 15-in., average cut, 6.49 ft.; 2,000 ft. of 18-in., average cut, 5.71 ft.; one bulkhead of 5 cu. yds., and four 8-in. sewer pipe catch basins, with c.-i. grate.

+Stables.—Fort Des Moines, Iowa.—Contracts have been awarded as follows for the reconstruction of two cavalry stables at Fort Des Moines: To CHARLES WEITZ SON, Des Moines, construction at $24,972; LENAN ELECTRIC CO., Des Moines, Iowa, electric wiring.

Ditch.—Fort Dodge, Iowa.—J. L. Hanrahan, County Audr., received and rejected all bids submitted on Oct. 17 for constructing Ditch No. -96, requiring 526,100 cu. yds. of excavation.

Drainage.—Pocohontas, Iowa.—Bids will be received until Nov. 7 by J. A. Terry, County Audr., Pocohontas, for furnishing the material and constructing eleven sections of Drainage District No. 66. The work will require about 196,100 cu. yds. of open ditch and 41,533 ft. of 6 to 24-in. tile.

Ditch.—Ortonville, Minn.—New bids will be asked by the County Commissioners of Big Stone County, Ortonville, for the construction of County Ditch No. 9, requiring the excavation of about 178,342 cu. yds. of earth, and furnishing and laying about 400 ft. of tile and nine corrugated iron culverts. Bids were opened on Oct. 14 and no contract let. A. V. Randall is County Audr.

+Chapel.—Fort Yellowstone, Wyo.—The contract for the construction of a chapel at this post has been awarded to W. G. LOVELL, of Minneapolis, Minn., at $20,700.

+Wharf, etc.—Kansas City, Mo.—The city has awarded the contract to F. H. CRITES, New York Life Bldg., Kansas City, for the construction of the municipal wharf, wharf house and freight-handling system, at $29,376. Bids were opened on Oct. 13.

Drainage Canal.—Cotton Plant, Ark.—W. A. Keene, Jr., of Cotton Plant, has prepared plans for the construction of an open drainage canal, 4¾ miles long, for the Turkey Creek Drainage District. The work will require about 40,000 cu. yds. of excavation.

+Wharf.—Corpus Christi, Tex.—The RICHLAND CONCRETE WORKS of Corpus Christi, has been awarded the contract by the city for the construction of a municipal wharf at $50,000.

***Lock-Valves, Gates, Etc.**—Dallas, Tex.—Bids were received as follows on Oct. 18 by Capt. T. H. Jackson, Corps Engrs., U. S. A., Dallas, for lock valves, two sets of steel lock-gates and operating gear to be delivered at Herrington, Tex., on Gulf, Colorado & Santa Fe Ry.: Steacy-Schmidt Co., York, Pa., $11,965; Chas. Hegenald Co., New Albany, Ind., $11,923; Penn Bridge Co., Beaver Falls, Pa., $10,075; Independent Bridge Co., 829 Beaver Ave., Pittsburgh, Pa., $8,820; Rosedale Foundry & Machine Co., North Side, Pittsburgh, Pa., $12,541; Union Foundry & Machine Co., Pittsburgh, Pa., $9,954; J. & B. Milholland Co., Pittsburgh, Pa., $9,279; Lawrence D. Weaning, care of The Variety Iron & Steel Works Co., Cleveland, Ohio, $9,691.

Drainage District.—El Campo, Tex.—The contract will soon be let for the construction of a drainage system in District No. 1 of Wharton County, to cost $300,000. The bonds for the proposed work have been voted. John A. Norris is Ch. Engr.

Wharf.—Portland, Tex.—Charles P. Taft, of Cincinnati, Ohio, is preparing to create a deep-water port here. The construction of a commercial wharf to cost $40,000 will soon be started.

Oil Wells.—Wichita Falls, Tex.—The Worth Oil Co. has been formed here with a capital stock of $50,000 for the purpose of boring oil wells. The incorporators are: A. H. Carrigan, Fred W. Householder and J. M. Clover.

Tramway.—Mogollon, N. Mex.—The Treasure Mining & Reduction Co. will install an aerial tramway on its property near Mogollon and will double the capacity of its mill.

Wire.—Boise, Idaho.—Bids were received as follows on Oct. 20 by the U. S. Reclamation Service, Los Angeles, Cal., for copper wire for the Boise Project, under Specification No. 198: (a) Item 1, (b) Item 2, (c) Item 3: John A. Roebling's Sons Co., Trenton, N. J., (a) 14.2 cts. per lb., (b) 14 cts. per lb.; Standard Underground Cable Co., (a) 14.25 cts., (b) 14.25 cts.; National Brass & Copper Tube Co., (a) 17.85 cts., (b) 17.10 cts., (c) 80 cts. each.

Ferryboat, Etc.—Clark Fork, Idaho.—Bids will be received until 10 a. m., Nov. 11, by the Clerk of the Board of County Supervisors, Sandpoint, Idaho, for constructing a ferryboat, cable towers and ferry landings at Clark Fork.

Lumber.—Seattle, Wash.—Bids will be received until 11 a. m., Nov. 4, by the Constructing Quartermaster, U. S. A., Seattle, for furnishing at Seattle or Tacoma, Wash., or other Puget Sound ports, accessible to vessels of deep draft and for Manila, P. I., 2,795,960 ft. of lumber for the Philippine Islands.

Fire-Engine House.—Coronado, Cal. Bids will be received by the Board of Trustees until 3 p. m., Nov. 6, for constructing a fire-engine house at the corner of Orange Ave. and Park Pl. W. Tilden Clark is Clk.

+Elevators.—Los Angeles, Cal.—Morgan, Walls & Morgan, Archs., Story Bldg., Los Angeles, have awarded the contract to the LLEWELLYN IRON WORKS, North Main and Redondo Sts., Los Angeles, for the installation of four direct-connected electric freight elevators in the 5-story concrete wholesale building being erected at Second and Central Aves. for the Haas Bldg. Co., at $10,950.

+Door Control System.—Los Angeles, Cal.—Parkinson & Bergstrom, Archs., Security Bldg., Los Angeles, have awarded contract, it is reported, to H. C. RANDALL, San Francisco, for furnishing and installing the Landal elevator door control system for 96 elevator doors in the 10-story Chester Building being erected at Fifth and Spring Sts., at about $9,600.

+Bulkhead.—Oakland, Cal.—The MERVY-ELWELL CO., of Oakland, Cal., has been awarded the contract for constructing an 800-ft. bulkhead to support the levee in Key Route Basin at $13.50 per lin. ft. or $11,000. Bids were opened on Oct. 11.

Pasadena, Cal.—Bids have been received as follows by the City Council for street cleaning: H. Humphreys, $21.50 per day; A. B. Coffman, $23.75.

+Wharf Extension.—Sacramento, Cal.—The city has awarded to CLARK & HENERY the contract for an extension to the municipal wharf at P St., at $15,835.

U. S. POSSESSIONS AND CUBA.

+Railroad.—Hawaii. — The contract for the construction of the first section of the Belt R. R. from Honolulu to Heeia has been awarded to the LORD YOUNG CO. at $79,710.

Dock System.—Philippine Islands.—Col. Clifford D. Ham, Surv. Port of Manila, P. I., is investigating the dock system of various cities to acquire information to aid him in the construction of a dock system at Manila.

Structural Steel, Etc.—Panama.—Bids for structural steel, steel rivets and reinforcing steel rods will be received by Maj. F. C. Boggs, Corps Engrs., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., until 10.30 a. m., Nov. 15.

***Gate Machines and Pumps.**—Panama.—Bids will be received by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., until 10.30 a. m., Dec. 30, for spillway gate-machines and pumps. For details see advertisement in this issue.

Bridge.—Philippine Islands.—Plans and a communication regarding the proposed bridge on the lower Pasig, estimated to cost about $800,000, have been submitted to the City Engineer by the Municipal Board. It is expected work will begin soon on the bridge on the lower Pasig connecting the lower part of the city with the new port district.

Lumber.—Panama.—Bids were received as follows on Oct. 16 by the Isthmian Canal Commission, Washington, D. C., for furnishing lumber, Circular 650 B: W. W. Carre, New Orleans, La., $16,021; G. Elias & Bro., Buffalo, La., $15,840 for pine or Douglas fir; W. R. Grace & Co., San Francisco, Cal., $12,390 for 20% in 35 days, balance in 62 days, or $12,319 in 62 days. Charles Nelson Co., San Francisco, Cal., $12,487.

Fire-Engine Outfit.—Panama.—Bids were received as follows on Oct 30, by Maj. F. C. Boggs, Corps Engrs., U. S. A. Gen. Purchasing Officer Isthmian Canal Comn. Washington, D. C., for furnishing two automobile fire-engine outfits: American La France Fire Engine Co., Elmira, N. Y., $16,500; Gorham Engineering & Fire Apparatus Co., San Francisco, Cal., $25,000; Webb Motor Fire Apparatus Co., St. Louis, Mo., $16,000; C. J. Cross & Co., 141 Broadway, New York, $16,690.

✚**Copper Bars, Steel Rails, Etc.**—Panama.—It is reported that contracts have been awarded by the Isthmian Canal Commission as follows: Copper conductor bars and splice bars, to WHEELING MOLD & FOUNDRY CO., Wheeling, W. Va., at $161,306 and $4,739; gate-moving machinery and motors, to the ALLIS-CHALMERS CO., Milwaukee, Wis., $3,000; steel rails, track material, etc., to CAMBRIA STEEL CO., Philadelphia, Pa., Class 2 at $12,960; to SPENCER-OTIS CO., New York, Class 3, $22,266, and H. A. WAGNER, Leanon, Pa., Class 5, $12,052.

FOREIGN CONTRACTS.

Steel Rails.—Siam.—Bids will be received until 10 a. m., Dec. 10, by T. A. Gottsche, Mgr., Paknam Ry. Co., Ltd., Bangkok, for the supply and delivery of 1,200 9-metre steel rails with accessories.

Electric Cranes, Rails.—Uruguay.—Bids will be received until 3 p. m., Feb. 6, by the Port Commission for 13 electric cranes and 600 metres of steel rails.

Wire.—Australia.—Bids will be received until 3 p. m., Dec. 12, by the Deputy Postmaster General, Melbourne, for 14 tons of copper wire and 14 tons of bronze wire under Schedule No 598.

Road.—Morocco.—Bids will be received until 10 a. m., Dec. 11, by the Moroccan Adjudications Commission, Tangier, for the construction of the first portion of the Casablanca-Mediuna road.

Dock.—Bulgaria.—Bids are asked until Nov. 28 at the Direction Generale des Constructions des Chemins de fer et des Pors, Ministere des Travaux Publics, Voies et Communications, Sofia, for a steel floating dock for the port of Varna.

Railway.—Italy.—Bids will eb received until Nov. 14 at the offices of the Ferrovie dello Stato, Rome, for the construction of a section of the Girgenti-Canicatti Ry., from Favara to Bivio Margonia, nine miles.

Dock.—England—Bids will probably be asked by the Port of London, before Jan. 1 for the construction of a new deep-water dock, to be known as South Albert dock. The work will require five years. Estimated cost, about $10,000,000.

✚**Dredging, Etc.**—Argentine Republic—The TILBURY CONTRACTING & DREDGING CO., LTD., of London, England has a contract from the Port Argentine Great Central Rys. Co. Ltd., for all the dredging necessary for the formation of a new port known as Port Argentine, including the dredging of an approach channel 9½ miles long in the Bay Samborombon, in the province of Buenos Ayres. About 16,000,000 cu. metres of material will have to be dredged. The contract for the construction of the docks, quays, rail-

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
11- 4	Pavement, Newport, R. I. (S)	10-12
11-10	Wells, pipe, Independence, Wis. (P. & S.)	11- 2
11-10	and 11 Building, Hawaii (S.)	9-21
11-10	and 11, Storehouse, Hawaii (S.)	9-21
11-11	Heating system, Arlington, Va. (S.)	10-12
11-11	Quarters, Vallejo, Cal. (S.)	10-12
11-17	Filtration plant, Rock Island, Ill. (S.)	10-26
11-18	Walks, etc, Annapolis, Md. (S)	10-26
11-18	Stable, Newport, R. I. (S.)	11- 2
11-20*	Rock excavation, Boston, Mass (S.)	10-26
11-25	Bridge, Portsmouth, N. H. (S.)	11- 2

Light, Heat and Power Plants.

Bids close.		Noted in issue of
11- 3	Lamps, Winnipeg, Man.	10-26
11- 3	Repairs to heating system, New York, N. Y.	10-26
11- 4	Street lighting, Champaign, Ill.	10-19
11- 6	Power house, etc., Sedro-Wooley, Wash.	11- 2
11- 6	Power plant, Colorado Spgs., Colo	11- 2
11- 6	Alterations to heating systems, New York, N. Y.	11- 2
11- 6	Lighting equipment, New York, N. Y.	11- 2
11- 6	Ventilating system, Saint Cloud, Minn.	11- 2
11- 7	Machinery, New Orleans, La.	10-26
11- 8	Boilers and boiler-room equipment, Ottawa, Ont.	10-26
11- 9	Boiler house, New York	10-26
11- 9	Lighting fixtures, Portland, Me.	10-26
11-11	Hot-water heating system, Arlington, Va.	10-12
11-13	Electric lamp, Takoma Park, D. C.	11- 2
11-20	Heating system, Clay Center, Kan	11- 2
11-21	Electric lighting, Fremont, Ohio.	11- 2
11-24*	Equipment for power station, Lethbridge, Alta.	10- 5
12- 7	Power machinery, New Orleans, La.	10-12

Bridges.

Bids close.		Noted in issue of
11- 3	Bridges, Jonesville, Va.	10-26
11- 3	Bridge, Beaver Falls, Pa.	11- 2
11- 6	Bridge, Stockton, Cal.	11- 2
11- 6	Bridge, Sandpoint, Idaho	11- 2
11- 6	Bridge, Redwood City, Cal.	11- 2
11- 6	Bridge, Sacramento, Cal.	11- 2
11- 6	Bridges, Marysville, Kan.	11- 2
11- 6	Bridge work, Vicksburg, Miss	11- 2
11- 6	Culvert, Boulder Creek, Cal.	11- 2
11- 6	Bridge, Lisbon, Ohio	10-26
11- 6	Bridge, Holtville, Cal.	10-26
11- 7	Bridge, Cedar Rapids, Neb.	10-26
11- 7	Bridge, Auburn, Cal.	11- 2
11- 9	Bridge, Sacramento, Cal.	11- 2
11-13	Bridge, Boston, Mass.	10-26
11-13	Bridge work, Zanesville, O.	10-26
11-13	Bridge work, Wash., Pa.	10-26
11-14	Bridge, Jasper, Ind.	10-26
11-14	Bridge, Modesto, Cal.	11- 2
11-14	Bridge, Merced, Cal.	11- 2
11-15	Bridge, Marble Rock, Iowa.	10-26
11-20	Bridges, Houston, Tex.	10- 5
11-25	Bridge, Toledo, Ohio	10-26
11-25	Bridge, Portsmouth, N. H.	11- 2
12- 1*	Superstructure, Portland, Ore.	10-19

Buildings.

Bids close.		Noted in issue of
11- 2	School, Milwaukee, Wis.	11- 2
11- 6	School, Edwardsville, Ill.	11- 2
11- 6	Model school bldg, St. Cloud, Minn	11- 2
11- 6	Alterations to hospital, Bakersfield, Cal.	10-26
11- 8	School bldg., Urbana, Ill.	11- 2
11-10	Stations, St. Paul, Minn.	11- 2
11-11	Quarters, Vallejo, Cal.	10-12
11-16	Building, Wash., D. C.	10-12
11-20	U. S. post-office, Dayton, O.	10-19
11-22	U. S. post-office, Jersey City, N. J.	10-19
11-27*	U. S. post-office, Huron, S. Dak.	10-19
12-28	U. S. custom house, remodel, Boston, Mass	11- 2
11-29	U. S. post-office, Bloomington, Ind.	10-19
12- 2*	U. S. post-office, Parsons, Kan.	10-19
12- 5	U. S. post-office, Union City Tenn.	10-19
12- 5	Infirmary, Rockville, Ind.	10-19
12-14*	U. S. post-office, Homestead, Pa.	10-19

Water-Works.

Bids close.		Noted in issue of
11- 3	Pipe, Lorain, Ohio	11- 2
11- 4	Castings, Chicago, Ill.	11- 2
11- 6	Laying pipe, Rapid City, S. Dak	11- 2
11- 6	Intake pipe, Muskegon, Mich.	11- 2
11- 7	Water mains, White Hall, Ill	11- 2
11- 7	Water mains, McIntosh, Minn.	10-26
11- 7	Water system, Amory, Miss.	10-26
11- 8	Water-works, Jellico, Tenn.	11- 2
11-10	Wells, pipe, Independence, Wis	11- 2
11-10	Water-works, Harlingen, Tex	11- 2
11- 9	Pumping engine, Washington, D. C.	10-26
11-11	Pipe, Montrose, Colo	11- 2
11-14	Sluice gates, Los Angeles, Cal	11- 2
11-14	Sleeves and valves, Portland, Ore	11- 2
11-14	W.-wks. impvts., Valley Falls, Kan	11- 2
11-15*	Water supply, Cumberland, Md.	10-26
11-15	Water-works, Loreauville, La.	10-19
11-15*	Water supply, Cumberland, Md.	10-19
11-15*	Water-mains, Pensacola, Fla.	10-19
11-17	Filtration plant, Rock Island, Ill.	10-26
11-17	Siphons, Los Angeles, Cal.	10-26
11-17*	Well, Fort Hancock, N. J.	11- 2
11-20	Canal, Turlock, Cal.	11- 2
11-20	Pumping station, Springfield, Ill	11- 2
11-20	Water pipe, Prince Rupert, B. C	11- 2
11-21*	Water-works, Obion, Tenn.	10-26
12- 1*	Water supply, Cumberland, Md	11- 2
12- 6	Electrical energy, Fallon, Nev	11- 2
12-15	Pump house, tower, etc., Neepawa, Man	11- 2

Sewers.

Bids close.		Noted in issue of
11- 3	Sewer Spokane, Wash.	10-26
11- 3	Sewer, Troy, N. Y.	11- 2
11- 3	Sewer construction, New York, N. Y.	11- 2
11- 3	Draining, Cleveland, Ohio.	11- 2
11- 6	Sewer, South Norwalk, Conn.	11- 2
11- 6	Sewers, Orange, N. J.	11- 2
11- 6	Sewer construction, Youngstown, Ohio	11- 2
11- 7	Sewer system, Amory, Miss.	10-26
11- 8	Sewer construction, New York, N. Y.	11- 2
11- 8	Sewer extension, Dennison, Iowa	11- 2
11- 8	Sewers, Jellico, Tenn.	11- 2
11- 8	Sewers, New York, N. Y.	11- 2
11- 9*	Sewer system, Osceola, Ark.	11- 2
11-10	Sewer basins, New York, N. Y	11- 2
11-10	Sewer system, Kennewick, Wash.	11- 2
11-15	Sewers, Pryor Creek, Okla.	10-19
11-16	Sewers, Sudbury, Ont.	10-26

Streets and Roads.

Bids close.		Noted in issue of
11- 2	Walk, Allenhurst, N. J.	11- 2
11- 3	Paving, Boston, Mass.	11- 2
11- 3	Road construction, Cadiz, Ohio	11- 2
11- 3	Paving, Louisville, Ky.	11- 2
11- 3	Paving, etc., Salt Lake City, Utah	10-26
11- 3	Road improvement, Cincinnati, Ohio	10-12
11- 3*	Paving, Collingswood, N. J.	10-19
11- 3	Gravel road, Indianapolis, Ind.	10-19
11- 4	Macadam roads, Greencastle, Ind.	10-19
11- 4	Paving, Newport, R. I.	10-12
11- 6	Stone road, Jasper, Ind.	10- 5
11- 6	Road impve., Brandon, Miss.	10-19
11- 6	Macadam road, Decatur, Ind.	10-19
11- 6	Culvert, Burlingame, Cal.	11- 2
11- 6	Roads, English, Ind.	10-19
11- 6	Stone road, Fowler, Ind.	10-19
11- 6	Stone road, Huntington, Ind.	10-19
11- 6	Stone roads, Rensselaer, Ind.	10-19
11- 6	Gravel road, Rising Sun, Ind.	10-19
11- 6	Gravel roads, Tyston, Ind.	10-19
11- 6	Paving, West Terre Haute, Ind.	10-26
11- 6	Paving, etc., Newark, N. J.	10-26
11- 6	Road work, Bakersfield, Cal.	10-26
11- 6	Gravel road, Scottsburg, Ind.	10-26
11- 6	Roads, Brownstown, Ind.	10-26
11- 6	Paving, Youngstown, Ohio.	11- 2
11- 6	Graveling, Minneapolis, Minn	11- 2
11- 6	Grading, etc., Stockton, Cal.	11- 2
11- 6	Paving, Philadelphia, Pa.	11- 2
11- 6	Street improvement, Woodland, Wash	11- 2
11- 6	Walks and curbs, Vancouver, Wash.	11- 2
11- 7	Street improvement, Monterey, Cal.	11- 2
11- 7	Road const'ct'n, Dorris, Cal.	11- 2
11- 7	Street improvement, Kelso, Wash.	11- 2
11- 7	Road, Ureka, Cal.	11- 2
11- 7	Highways, Lawrenceburg, Ind.	10-19
11- 7	Macadam road, Logansport, Ind.	10-19
11- 7	Roads, Paoli, Ind.	10-19
11- 7	Road improvement, Cleveland Heights, Ohio	10-19
11- 7	Grading, etc., Camden, Ala.	10-19
11- 7	Curbs and sidewalks, Lake Charles, La.	10-12
11- 7*	Paving and curbing, Pensacola, Fla.	10-12
11- 7	Gravel road, Vincennes, Ind.	10-19
11- 7	Gravel road, Logansport, Ind.	10-26
10- 7	Highways, Lawrenceburg, Ind.	10-26
11- 7	Roads, Paoli, Ind.	10-26
11- 7	Highways, Winamac, Ind.	10-26
11- 7	Gravel road, Washington, Ind.	10-26
11- 7	Road, Madison, Ind.	10-26
11- 8	Highway, North Yakima, Wash.	11- 2
11- 8	Gravel roads, Lafayette, Ind.	10-19
11- 8	Paving, Scottsboro, Ala.	10-26
11- 8	Paving, Baltimore, Md.	11- 2
11- 8	Paving, etc., New York, N. Y	11- 2
11- 9*	Road construction, Blauvelt, N. Y	11- 2
11- 9	Paving, New York, N. Y.	11- 2
11- 9	Roads, Peru, Ind.	10-19
11- 9*	Street improvements, Blauvelt, N. Y.	10-26
11-10	Gravel road, Brazil, Ind.	10-26
11-10	Paving, etc., New York, N. Y	11- 2
11-13	Paving, Pittston, Pa.	10-19
11-13	Road construction, Wilkes-Barre, Pa.	10-26
11-14	Paving, etc., Pensacola, Fla.	10-19
11-15	Paving, Monmouth, Ill.	10-19
11-15	Grading, Cleveland, Ohio	10-12
11-15	Grading, etc., Hamilton, Ala.	11- 2
11-15	Road construction, Baltimore, Md	11- 2
11-15	Paving, Paterson, N. J.	11- 2
11-17	Paving, Louisville, Ky.	11- 2
11-18	Walks, etc., Annapolis, Md.	10-26
11-20	Road improvement, East View, Ohio	11- 2
11-27*	Highway improvement, Albany, N. Y.	11- 2
11-29*	Highway improvement, Albany, N. Y.	11- 2
12- 1	Paving, Edmonton, Alta	11- 2

Miscellaneous.

Bids close.		Noted in issue of
11- 3*	Bricks, gravel, stone, Collingswood, N. J.	10-19
11- 4	Jetty construction, Wilmington, Del.	10-12
11- 4	Lumber, Seattle, Wash.	11- 2
11- 6	Engine station, Cleveland, Ohio	11- 2
11- 6	Repairs to pier, New York.	11- 2
11- 6	Fire engine house, Coronado, Cal	11- 2
11- 6	Pipe, gate-valves, etc., Panama (U. S. Poss.)	10-19
11- 6	Fence, Los Angeles, Cal.	10-19
11- 6*	Jetty construction, Wilmington, Del.	10-12
11- 6*	Harbor work, New York.	10-12
11- 6*	Breakwater work, Burlington, Vt.	10-12
11- 7	Copper, etc., Wash., D. C.	10-26
11- 7	Drainage, Pocahontas, Iowa.	11- 2
11- 7	Street sweeper, Covina, Cal.	11- 2
11- 8	Projectiles, Washington, D. C	11- 2
11- 8	Storehouse, Monterey, Cal.	10-19
11- 8*	Water tube boilers, Philippine Islands (U. S. Poss.)	
11- 9	Dredge, Portland, Ore.	10-19
11- 9	Fire-boat, Portland, Ore.	10-19
11- 9	Dredge, Portland, Ore.	10-26
11- 9	Fire house, Huntington, N. Y	11- 2
11-10	Materials for repairs, New York	11- 2
11-10	Creosoted piles, Los Angeles, Cal	10-26
11-10	and 11, storehouse, Hawaii (U. S. Poss.)	9-21
11-10	and 11, Building, Hawaii (U. S. Poss.)	9-21
11-11*	Earth levee, East St. Louis, Ill.	10-12
11-11	Storehouse, Hawaii (U. S. Poss.)	9-21
11-11	Levees, Texarkana, Ark.	10-10
11-11	Ferry boat, Clark Fork, Idaho	11- 2
11-11*	Crematory, Aurora, Ill. (Garbage)	11- 2
11-13	Metal furniture, New York	11- 2
11-13*	Dredging, New York	10-19
11-14	Castings, cylinders, etc., Panama (U. S. Poss.)	9-28
11-14	Bronze, steel, etc., Washington, D. C.	10-26
11-14	Drain, Clarion, Iowa	11- 2
11-15	Structural steel, etc., Panama (U. S. Poss.)	11- 2
11-15	Arch, Valley Forge, Pa.	11- 2
11-15	Transfer station, New York.	10-19
11-17*	Subway superstructure, Saskatoon, Sask.	10-26
11-18	Dredging, Washington, D. C.	11- 2
11-18	Stable, Newport, R. I.	11- 2
11-19	Elec. lighting, Roumania (Foreign)	9-21
11-20*	Pier and bulkhead, Philadelphia, Pa.	10-26
11-20*	Rock excavation, Boston, Mass.	10-26
11-20*	Repairs, to canal walls, Saulte Ste. Marie, Mich.	10-26
11-20	Electric towing locomotives, Panama (U. S. Poss.)	
11-20*	Drainage canal, Caruthersville, Mo.	10-19
11-22	Power plant, South Africa (Foreign)	10-19
11-22	Cable, Australia (Foreign)	10-19
11-22	Projectiles, Washington, D. C.	11- 2
11-23*	Barges, Wheeling, W. Va.	10-26
11-24*	Locomotive crane, Memphis, Tenn.	10-26
11-27*	Channel impvt., New York.	11- 2
11-28*	Bulkhead wall, Providence, R. I	11- 2
11-28	Dock, Bulgaria (Foreign)	11- 2
11-29	Copper wire, etc., Australia (Foreign)	10-19
12- 1*	Pumping machinery, India, (Foreign)	9-21
12- 1	Drainage, Osceola, Ark.	10- 5
12- 1*	Hulls and boilers, Charleston, S. C.	11- 2
12- 2*	Cut stone, Nashville, Tenn.	11- 2
12- 4*	Condensers, pumps, etc., Philippine Islands (U. S. Poss.)	10- 5
12- 4	*Engines, generators, etc., Philippine Islands (U. S. Poss.)	9-28
——	Excavation, Shelburne Falls, Mass.	9-28
12- 5	Buildings, Porto Rico (U. S. Poss.)	10-19
12-10	Steel rails, Siam (Foreign)	11- 2
12-11	Road, Morocco (Foreign)	11- 2
12-12	Wire, Australia (Foreign)	11- 2
12-27*	Dredges, San Francisco, Cal.	10- 5
12-30*	Gate machines and pumps, Panama (U. S. Poss.)	11- 2
2- 6	(1912) Cranes, rails, Uruguay (Foreign)	11- 2
——*	Concrete, Montezuma, N. Y.	10-26

Examinations.

Examination date.		Noted in issue of
11- 3	Statistician, Albany, N. Y.	10-19
11- 4	Foremen of Steelwork Construction, Washington, D. C.	10-19
11-15	Inspector, New York	11- 2
11-22	Electrical Assistant, Washing. D. C.	10-19
11-22	Editorial Clerk, Washington, D. C.	10-26
11-25	Assistant Mechanical Engineer, Washington, D. C.	10-26

ways, etc., has been awarded to COUVREUX, DOLLFAS, SILLARD & WIRIOT, of Paris, France.

Harbor Improvements.—Mexico—It is announced by President-elect Francisco I. Madero that one of the policies of his administration will be to improve the harbors on both the Pacific and Atlantic sides of the country. In keeping with this proposed plan Manuel Bonilla, Minister of Communications and Pub. Wks., has appointed a commission of engineers to make the preliminary surveys and estimates for harbor works at the undeveloped port of San Blas, on the Pacific Ocean, about 150 miles south of Mazatlan. The natural contour and location of the harbor are good, but much improvement work will be necessary in order to make it available for ocean-going vessels. The harbor is fed by a river of considerable size that has carried into the basin large quantities of silt. This deposit will be dredged. The construction of two stone breakwaters, one to run from the Northern shoulder of the harbor and the other from the southern edge of the harbor mouth, will be necessary. Besides developing the harbor itself the government will establish extensive and modern port facilities at San Blas, including electric loading and unloading equipment, steel and concrete wharves and large warehouses. The new railway which the Southern Pacific is constructing down the Pacific slope of Mexico will give San Blas a transportation outlet.

The Federal Government has also had surveys made of the harbors of Mazatlan and Guaymas with the view of soon inaugurating improvements at those places. These two parts are on the Pacific coast. On the Atlantic side the ports of Tuxpan, Soto la Marina and Nautla are to be made available for ocean-going traffic. Surveys for breakwaters and jetties in the harbors of those places have also been made.

The work of improvement of the harbor and port of Manzanillo, on the Pacific, has been going on for several years. The contractor, E. K. Smoot, has so far expended approximately $14,000,000 Mexican money in the harbor works at that place. It is stated that the improvements there are about one-half finished and that another $14,000,000 will be required to complete the plans.

CONTRACT PRICES.

Conduit System.—Binghamton, N. Y.—Bids were received Oct. 25 for a conduit system from: (A) G. M. GEST (awarded contract); (B) New England Engineering Co.; (C) Bafty Insulated Wire & Cable Co.; (D) Watson Flagg Engineering Co. The itemized bids were as follows:

CONDUIT SYSTEM BINGHAMTON, N. Y.

	A	B	C	D
21,300 duct ft. 15-way fiber duct in place..	.185	.19	.229	....
13,700 duct ft. 10-way fiber duct in place..	.24	.24	.275	....
1,872 duct ft. 8-way fiber duct in place..	.25	.28	.299	....
6,810 duct ft. 6-way fiber duct in place..	.26	.31	.319	....
348 duct ft. 4-way fiber duct in place..	.34	.48	.365	....
3,400 lin. ft. 3" iron pipe laterals........	.58	.60	.715	....
1,200 lin. ft. 1½" iron pipe laterals......	.52	.36	.429	....
52 3-in. type F condulets...........	8.25	6.42	7.64	....
57 3-in. type A condulets...........	3.50	3.58	3.67	....
26 1½-in. type F condulets...........	1.50	1.33	1.54	....
5 double manholes	365.00	293.00	388.00	....
20 junction boxes	138.00	121.00	175.45	....
34 service boxes	40.00	38.00	59.13	....
7 curb boxes	9.00	9.20	9.07	....
45 1½-in. pipe elbows...............	3.50	3.00	2.75	....
165 3-in. pipe elbows.................	70.00	79.00	92.12	55.00
26 Boulevard Lighting Posts, std wgt.	.75	.50	1.10	....
12 Boulevard Lighting Posts, extra hvy	80.00	93.00	108.62	65.00
8 Goose Neck attachments...........	8.50	17.00	8.58	7.50
3 fire alarm posts.................	85.00	64.00	64.90	....
10 U. S. post-office box posts.........	7.00	9.00	8.91	....
4 wooden poles	15.00	30.00	16.50	....
ALTERNATE BIDS.				
21,300 duct ft. 15-way tile duct in place..	.175	....	.263	....
13,700 duct ft, 10-way tile duct in place..	.22	....	.286	....
1,872 duct ft. 8-way tile duct in place..	.23	....	.308	....
6,810 duct ft. 6-way tile duct in place..	.24	....	.319	....
348 duct ft. 4-way tile duct in place..	.32	....	.33	....
Totals for item bids on fiber duct....	$22,701.17	$22,648.68	$27,219.31	....
Totals for item bids on tile duct....	$22,033.57	....	$28,099.37	....
Lump sum bid................	$23,000.00	$22,300.00	$27,240.00	$26,000.00

EXAMINATIONS.

Inspector.—New York, N. Y.—Applications will be received by the Municipal Civil Service Commission, 299 Broadway, New York, N. Y., until 4 p. m., Nov. 15, for the position of Inspector (Public Works), 2d and 3d grades. The subject of weights of the examination are as follows: duties and report, 4; experience, 3; arithmetic, 3; 70% will be required on duties and report, and 70% on all. Candidates for both grades will be given an examination to test their knowledge of the different kinds of paving, concreting and foundation work. They will also be required to show a knowledge of the laws and ordinances governing the regulating, grading and paving of streets, the building of vaults, removal of encumberances and the making of sewer connections. Candidates for the third grade will be given an additional test on their knowledge of stone foundation work, sewer construction and pipe laying. The age limits for both grades are 25 to 50. The salary for the second grade is from $1,200 to $1,800 a year. The salary for the third grade is from $1,800 to $2,400 a year. Frank A. Spencer is Secy.

INDUSTRIAL NOTES.

(See also Page 200.)

The American Service Co., of Pittsburgh, Pa., has retained Arthur L. Mullergren, Prest. of the Mullergren Engineering Co., to proceed with the organization of the American Service Co., of Oklahoma and Arkansas with central offices at Poteau, Okla. County representives will be retained throughout the States named in the interest of the Bureau of Technical References and the Bureau of Municipal Research.

A Chimney or Stove Pipe Damper and Spark Arrester, combined, has just been put on the market by the National Spark Arrester & Damper Co., 47 West 34th St., New York City. The damper is a very simple device, consisting of a perforated disk, which when turned across the pipe permits smoke and gases to pass through the holes but arrests any sparks which might set fire. This perforated disk is combined with a plain disk, similar to an ordinary damper, so that the draft can be accurately regulated. A patent, No. 1,001,478, was issued Aug. 22, 1911.

The increasing demand for structural shapes is well illustrated in the record of production as compiled by the American Iron & Steel Association. The production in gross tons for the calander years has been as follows:

1892	453,957
1893	387,307
1894	360,305
1895	517,920
1896	495,571
1897	583,790
1898	702,197
1899	850,376
1900	815,161
1901	1,013,150
1902	1,300,326
1903	1,095,813
1904	949,146
1905	1,660,519
1906	2,118,772
1907	1,940,352
1908	1,083,181
1909	2,275,562
1910	2,266,890

Railway equipment orders were larger in October than any previous month this year. It is figured that orders were placed for 13,454 cars during this month alone. The total orders for the first ten months of the year have been about 72,000 cars. Should the demand during November and December be as large as during October, it seems probable the car orders will aggregate nearly 100,000 for this year. This is about the average of the last three years. Since the panic of 1907 the railways have purchased less than 400,000 cars, on an average of about 100,000 in a year. Previous to that the railways bought anywhere from 200,000 to 300,000 cars annually. The rehabilitation of certain systems and the ease with which they can secure funds, will probably be responsible for a much larger buying of cars and motive power next year. This is notably true of the Erie, Southern Ry. and the Missouri Pacific, the first two railways of which have recently placed, or will place on the market, notes for about $5,000,000 each which will be expended for cars.

The steady expansion of copper production has been a matter of much comment. The London "Statist" has recently compiled a chart showing that the production of copper, all over the world, has increased steadily every year since 1892 and with that and one other exception, every year since 1881. The United States production has not increased as rapidly as that of other countries. Taking the last decade, the increase has been about 80%, while the rest of the producing countries has doubled. Spain and Portugal, which have been notable copper producers of the world for nearly a century, are now practically stationary, having an output of 50,000 tons a year. The Mexican production, however, was more than doubled, and South America nearly the same. The increase in production in Australia has been about 80%, while South Africa has doubled in the last decade. This production will be a matter to be reckoned with in the near future. The Congo concessions granted by Leopold III will shortly be furnishing copper for the markets of the world. The deposits in the Tanganyika district are wonderfully rich, and it only needs the development of these mines and the proper transportation facilities to bring a new low cost copper into competition with the older mines.

The Institute of Industrial Research, Washington, D. C., 19th and B Sts., N. W., announces the organization and equipment of the Division of Roads and Pavements under the supervision of Mr. Prevost Hubbard.

Mr. Hubbard has been connected during the past seven years with the U. S. Department of Agriculture, in which he served first as assistant chemist and later as chief chemist of the Office of Public Roads. He is the author of "Dust Preventives and Road Binders" and of a number of Government publications having to do with the examination and use of bituminous road materials.

The Division of Roads and Pavements has been assigned adequate quarters in the Institute's new building, which has just been completed, and will consist of two well equipped laboratories—one for physical work in connection with cements, mortars, concrete, block, brick, etc., and the other for chemical analysis and investigations of all types of bituminous and other road and paving materials. The equipment consists of the latest approved apparatus, and special apparatus will be added as occasion demands.

Besides the routine examination, inspection and specification of road and paving materials which will be undertaken by this Division, the Institute particularly solicits correspondence relative to problems connected with the road material industries, in regard to improvements of materials and processes, and the utilization of waste and by-products.

The Institute invites the attention to this Division of all public service bodies, associations, corporations and individuals who are interested in Roads and Pavements and their materials of construction.

Unfilled Orders OF THE UNITED STATES STEEL CORPORATION.—In the following list is given the unfilled orders of the United States Steel Corporation, reported every quarter from Dec. 31, 1902 to June 30, 1910, and from that time at the end of each month:

Sept. 30, 1911	3,611,317
Aug. 31, 1911	3,695,985
July 31, 1911	3,584,085
June 30, 1911	3,361,058
May 31, 1911	3,113,187
April 30, 1911	3,218,704
Mar. 31, 1911	3,447,301
Feb. 28, 1911	3,400,543
Jan. 31, 1911	3,110,919
Dec. 31, 1910	2,674,757
Nov. 30, 1910	2,760,413
Oct. 31, 1910	2,871,949
Sept. 30, 1910	3,158,106
Aug. 31, 1910	3,537,128
July 31, 1910	3,970,931
June 30, 1910	4,257,794
Mar. 31, 1910	5,402,514
Dec. 31, 1909	5,927,031
Sept. 30, 1909	4,796,833
June 30, 1909	4,057,939
Mar. 31, 1909	3,542,595
Dec. 31, 1908	3,603,527
Sept. 30, 1908	3,421,977
June 30, 1908	3,313,876
Mar. 31, 1908	3,765,343
Dec. 31, 1907	4,624,552
Sept. 30, 1907	6,425,008
June 30, 1907	7,603,878
Mar. 31, 1907	8,043,858
Dec. 31, 1906	8,489,719
Sept. 30, 1906	7,936,884
June 30, 1906	6,809,850
Mar. 31, 1906	7,018,712
Dec. 31, 1905	7,605,086
Sept. 30, 1905	5,865,377
June 30, 1905	4,829,655
Mar. 31, 1905	5,579,560
Dec. 31, 1904	4,696,203
Sept. 30, 1904	3,027,436
June 30, 1904	3,192,277
Mar. 31, 1904	4,136,961
Dec. 31, 1903	3,215,123
Sept. 30, 1903	3,278,742
June 30, 1903	4,666,578
Mar. 31, 1903	5,410,719
Dec. 31, 1902	5,347,523

For other Proposal Advertisements see pages

65, 66, 67, 68

of Advertisements and Construction News, page 210

DISPOSAL OF GARBAGE AND REFUSE FOR A TERM OF TEN YEARS.

City of Boston, Mass.

The Commissioner of Public Works of the City of Boston, office 66 City Hall, invites proposals for the disposal of refuse for a term of ten (10) years from July 1, 1912, and giving bond therefore of a surety company approved by the Commissioner in the sum of $100,000.

Only proposals obtained at the said office, signed by the bidder and left before 12 o'clock m., Tuesday, December 5, 1911, at said office, with a certified check for $10,000, payable to and to be the property of the City if the proposal after acceptance is not carried out, will at said hour and place be publicly opened and read.

Proposals must be made in duplicate, the duplicate without check to be deposited with the City Auditor previous to the time named for opening the proposals.

The undersigned reserves the right to reject any or all proposals or to award the contract as he deems best.

LOUIS K. ROURKE,
Commissioner of Public Works.

For full details and further information write

JAMES A. McKIBBEN,
Secy. Boston Chamber of Commerce.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 26, 1911.—Sealed proposals will be received in this office until 3 o'clock p. m. on the 7th day of December, 1911, and then opened, for the construction of a 2-story and basement building of 4,700 square feet ground area, stucco faced, with stone and terra-cotta trimming, tin roof, and nonfireproof, except first floor (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and lighting fixtures), for the United States post office at Albany, Oreg., in accordance with drawings and specifications, copies of which may be obtained from the custodian of site at Albany, Oreg., or at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

Situations Open
(Or Vacant)

WANTED—Several column and beam detailers on structural steel work. Address TRUESDELL-FOX CO., 7 W. 38th St., New York City. 18-1t

Miscellaneous Wants

AGENCY Wanted: A mechanical engineer desires to represent in Chicago a manufacturing firm; has previously represented in that city a leading eastern iron house. Address "F. B. 17," Engineering News, New York. 18-1t

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Want Ads received in our Chicago Office by noon of the Monday preceding publication will be inserted in good location